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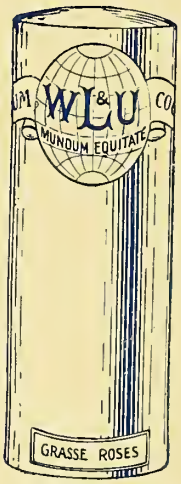

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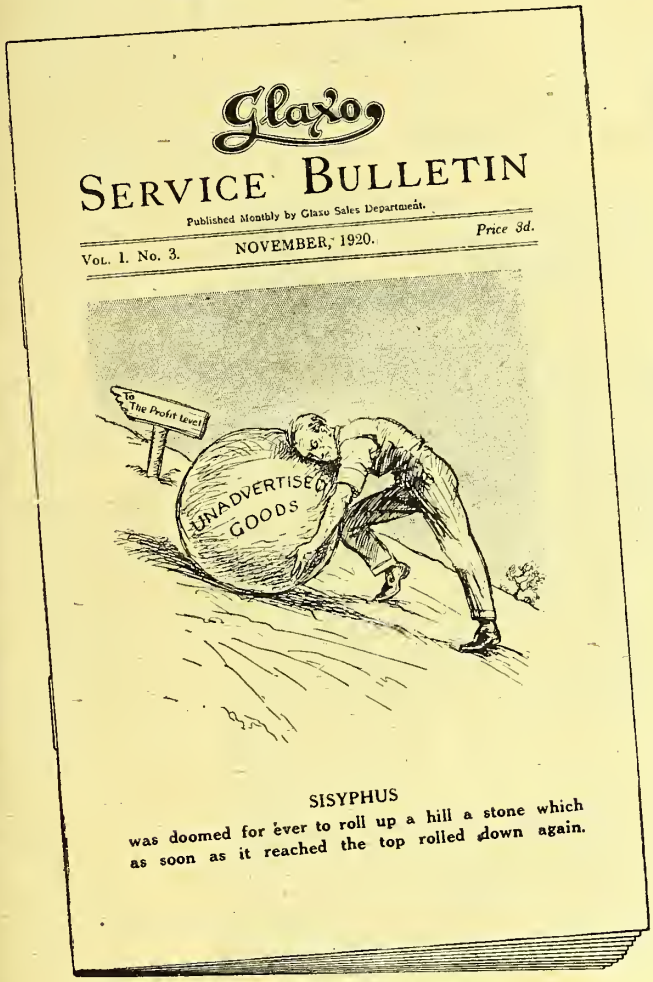
Glaxo
SERVICE BULLETIN
Published Monthly by Glaxo Sales Department.
VOL. 1. No. 3. NOVEMBER, 1920. Price 3d.

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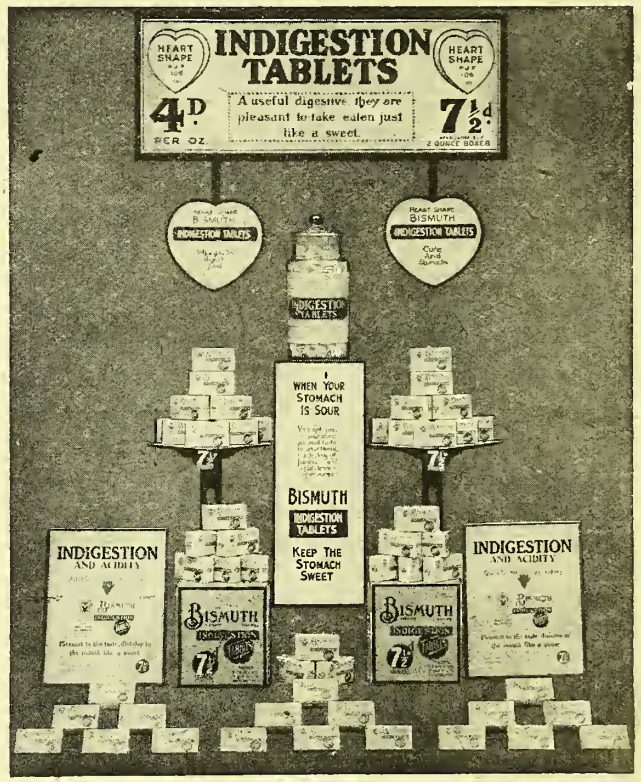

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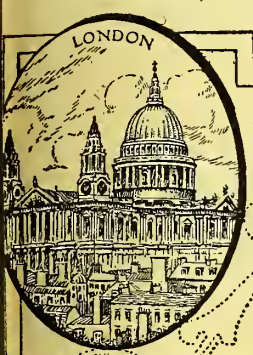

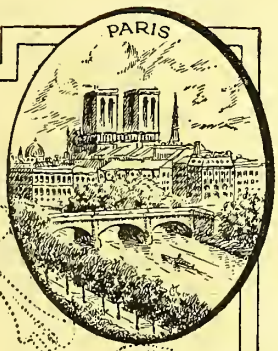

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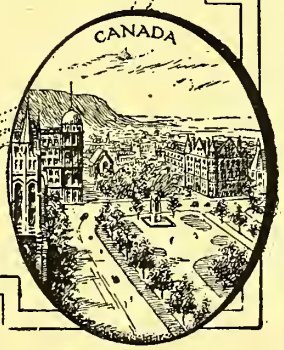

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Maw's Page

November 27, 1920 No. 476.

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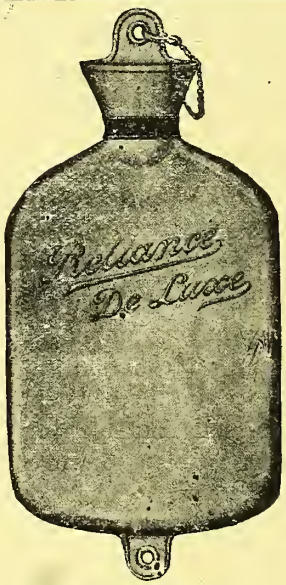

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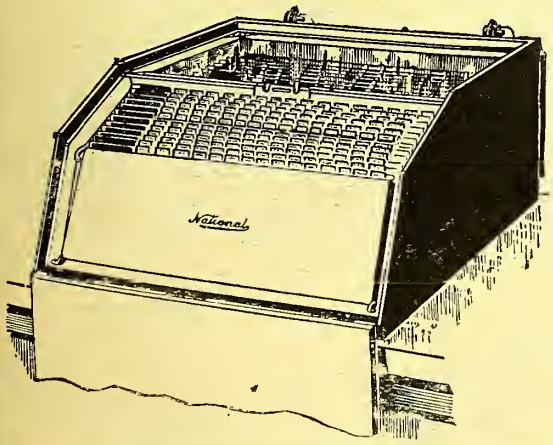

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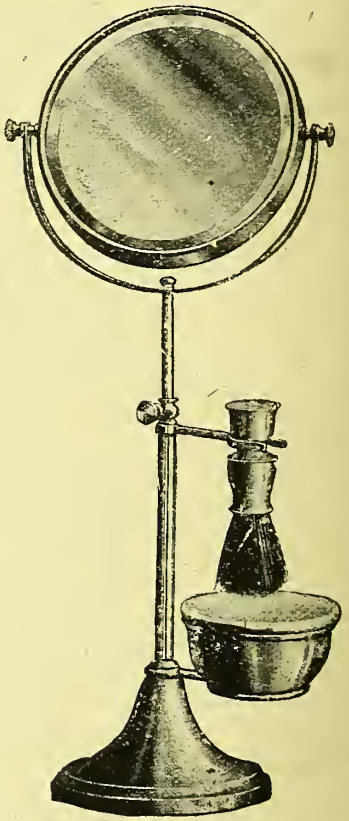

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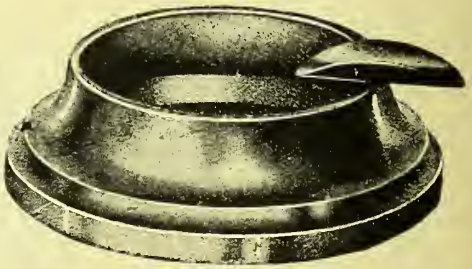

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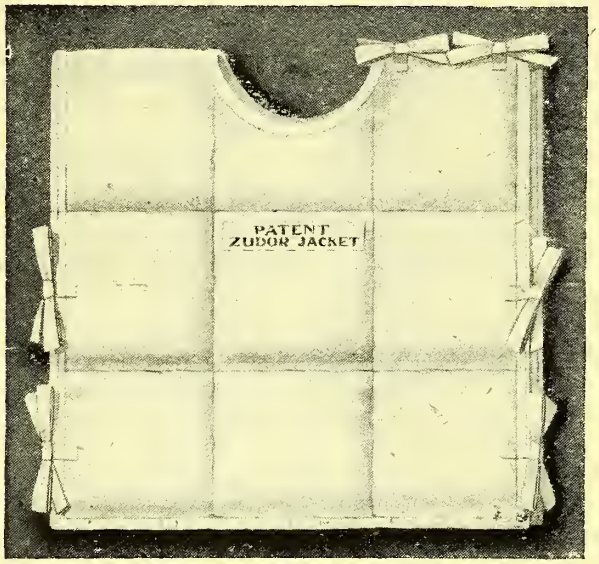

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PURE ESSENTIAL

OIL OF HOP.

Singly and fractionally distilled.

HIGHEST CONCENTRATION AND PURITY GUARANTEED.

Prices, samples and information from the distillers:—

WHITE, TOMKINS & COURAGE, LTD.

HEAD OFFICE:

48 Mark Lane, LONDON, E.C. 3.

And at

LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

BOTTLES

London-made Medicals, Perfumers, Essences.

EVERY CLASS OF BOTTLE required by the Chemist and Kindred Trades. Delivery guaranteed.

Customers' own designs our speciality.

Buy of the Manufacturers:

Alliance Glass Works, Ltd.

31 Finsbury Square, LONDON, E.C. 2.

WORKS—BERMONDSEY and KENNINGTON.

ROURE BERTRAND FILS, GRASSE.

Established 1820.

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.

Wholesale Houses only supplied.

BOTOT

PARFUMS DE LUXE

10, Rue de la Paix - PARIS

Exposition Universelle, PARIS 1900 Membre du Jury

HORS CONCOURS

LE COLLIER D'AMBRE

Extract : 324/ per doz.

LOULHY

Poudre de Riz : 40/ per doz.

Extract : 108/ per doz

ONDILIA

Extract : 168/6 per doz. Poudre de Riz : 120/ per doz.

BIBBA

Poudre de Riz : 59/ per doz Extract : 119/ per doz.

SOLES AGENTS for GREAT BRITAIN :

VAN OPPEN-ROSS Ind Ltd

38, Basinghall Street LONDON, E C.

TÉLÉPHONE : CENTRAL 3032

CASE

EXTRAIT

Extrait : 500/ per doz.

CHU-CHIN-CHOW

the facinating perfume

of **BRYENNE**

IF YOU WOULD HAVE A BRIGHT ORIGINAL XMAS SHOW, GET OUR XMAS LIST AND STUDY THE SALE-COMPELLING LINES IN SAME.

W. H. CALNAN & CO., 30-32 Ludgate Hill, E.C.4.

POWDER BOWLS—PUFFS

Shaving and Tooth Brushes, Camel Hair Brushes (French manufacture). Vanity Boxes, Mirrors, Caustic Pencils, Scissors (Manicure & Surgical).

SPONGES

Turned Wood Boxes, Cachet Machines.

SURGICAL INSTRUMENTS

Cystoscopes and Urethroscopes, Kollmann Dilators, Hypo. Needles (Platinum and Steel) Hospital Furniture — Operating Tables, Sterilizers and Lamps.

HYPO. & RECORD SYRINGES

Agents for Drapier, Selle, Robert & Rongier (Paris); Klasing (Trieste).

Wholesale and Export only.

The British Surgical and Drug Co. Ltd.

3 Fulwood Place, Holborn, London, W.C.1.

For Status Inquiries, Collection of Accounts, and Investigations, Business Transfers, Stocktaking and Valuations,

Join The Association of Manufacturing Chemists, *Ltd.*

which is **THE MEDIUM** for the **TRADE.**

PROSPECTUS ON APPLICATION.

PARKIN S. BOOTH,

Accountant to the Association of Manufacturing Chemists, Ltd.
(for the Protection of the Drug, Chemical and Allied Trades)

32 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.

Telephone: City 6942.

Or 35, 36 & 37 EXCHANGE CHAMBERS, — 2 BIXTETH STREET, LIVERPOOL. —

Telephone: Central 8365 (4 lines).

CORRUGATED PAPER

ROLLS, SHEETS, BOXES
(collapsible)

Cartons, "Cut Pieces," Strong Outers, for every description of Packing.

Keenest Prices. Quick Delivery.

Inquiries Welcomed.

The Guildhall Corrugated Paper Co.

Guildhall Bdgs., Navigation St., **BIRMINGHAM.**

Telegraphic Address: "Corrucarb Birmingham." *Telephone:* Central 4291.

Gouttes Royales, the One-Drop Ottos

Choice Assortment.

In boxes of 12 gold-cap bottles, 7/6 net
1 bottle in Boxwood Lighthouse, 17/6 doz. net.
1 ,, ,, Art-lined Card-case, 18/6 doz. net.
2 ,, ,, ,, ,, 36/- doz. net.

The easiest and present-day most profitable selling line.

The supply of boxes and bottles is limited; to avoid disappointment, order now direct from the Sole Makers—

F. SCHUTZE & Co. Ltd.

Black Bull Works,

Caledonian Road, LONDON, N. 7

RUVOIRE ET CIE

MANCHESTER & ANTIBES.

High-class Concentrated Perfumes made with some of the finest flower oils from the South of France, in high-class rod-stoppered hexagon bottles with gold seals.

ODOURS—

Parma Violet. **Sweet Pea.**
White Rose. **White Lilac.**
Wallflower. **Lily of the Valley.**

FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good Selling Line.

APPLY— **A. M. EVANS,**

154 CHURCH LANE, HARPURHEY, MANCHESTER.

ISMA FLORAL OTTOS

IN ROD-STOPPERED BOTTLES:

The most perfectly packed lines ever offered to the Trade.

An OPPORTUNITY for EVERY CHEMIST to DOUBLE his present sales on NON-ALCOHOLIC PERFUMES.

SPECIAL BONUS OFFER.

	Cost. s. d.		Selling. s. d.
1 doz. OTTOS assorted on DISPLAY Cards	5 6	...	9 0
1 „ „ „ in „ Outers	6 6	...	12 0
1 „ „ „ „ BATTLESHIP Display Outers	7 0	...	12 0
1 „ „ „ „ ½ doz. ARCHWAY Display Outers ...	7 6	...	12 0
½ „ „ „ „ LIGHTHOUSES, each in Fancy Case (15/-)	7 6	...	15 0
1 „ COMPACT POWDERS assorted, with PUFF & MIRROR	gratis	...	12 0
COST	£1 14 0		£3 12 0
Less 10% cash 7 days	3 5		
Net Cost... ...	£1 10 7		£1 10 7
	PROFIT ...		£2 1 5

Assortment.

Muguet, Rose, Violette and Lilas—no fancy names which do not sell.

EVERY Enterprising Chemist can make £10 extra Profit during the next few weeks on these exquisite lines alone, this without interfering with ordinary trade.

PLEASE REMEMBER *that these Popular Priced Floral Ottos retailing at 1/-, sell very freely in any locality; they are bought by numerous ladies going to dances, theatres, or parties, who do not feel justified in buying more expensive perfumes.* ***This is EXTRA business and PROFIT for you.***

WRITE TO-NIGHT FOR BONUS PARCEL and if on receipt it is not to your liking, post back to us by return.

ALL ORDERS dispatched by post the same day as order is received.

PARFUMERIE ISMA, TUNBRIDGE WELLS.

Agents required where not represented.

Courtin & Warner

CHEMICALS, DRUGS, ESSENTIAL OILS, SYNTHETICS, Etc. Etc.

FOR

Wholesale Chemists, Druggists, Soap Makers, Confectioners and Allied Trades.

SPECIAL PRICES FOR LARGE QUANTITIES.

We shall be pleased to quote for articles not appearing in our list.

List of Essential Oils will appear in next issue.

8 Harp Lane, London, E.C. 3.

Telegrams - - "ACCOURTIWA, BILGATE, LONDON."
Telephone - - AVENUE 2220 AND CENTRAL 9521.
Codes: LIEBER'S; A B C, 4, 5 & 6 ED.; BENTLEY'S.

CHEMICALS, DRUGS, Etc.

Acetanilid, P.B.
Acid. Acetyl-Salicyl.
„ Benzoic ex Toluol
„ Citric, Crystals or Powder
„ Oxalic, Crystals, Original Casks
„ Pyrogallic, Resublimed
„ „ Crystal
„ Salicylic, Crystals or Powder
„ Tannic
„ Tartaric
Ammonium Bromide
Apiol Fluid Green
Balsam, Peru
Barbitone
Betanaphthol, Med. Cryst.
Caffeine, Pure, P.B.
Camphor, Monobrom.
„ English and Jap.
Carmine, Nacc. Best
Chloral Hydrate
Cream Tartar
Eserine Sulph.
Extract Male Fern, P.B.
Glycerine, C.P. 1,260
Hexamine
Hydroquinone
Ichthyol Substitute
Menthol

CHEMICALS, DRUGS, Etc.

Papain, 1-200
Paraldehyde
Petroleum Jelly, White, P.B.
Phenacetin, P.B.
Phenazone
Phenolphthalein
Potash, Bromide Cryst. P.B.
„ Permanganate
Quinine Sulphate
Resorcine, Pure Cryst. P.B.
Saffron
Salicine, P.B.
Salol, P.B.
Saltpetre (Gran.)
Santonine
Saponine
Soda, Benzoate
„ Bromide
„ Salicylate Cryst. P.B.
„ „ Powder „
Spartein, Sulphate
Spermaceti
Strychnine
„ Muriate, P.B.
Sugar of Milk
Sulphur, Sicilian, Flowers and Rolls
Thymol, Crystal
Vanilloes
Vanilline

LES GRANDS PARFUMS AVENEL

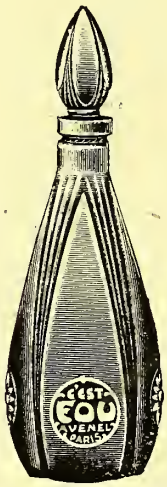
DISTINCTIVE
DESIRABLE
DAINTY

PERFUMES ∴ FACE
POWDERS ∴ FACE
CREAMS ∴ TOILET
LOTIONS & SOAPS

728 - - 22/6

1018 - - 95/-

Each Bottle is packed in an Elegant Box or Case.



816 - - 18/6

400 - - 10/6

200 - - 5/-

600 - - 15/-

Prices quoted are per bottle.

Subject to Trade Discount 33⅓%

PROFIT 50%

868 - - 13/6

Sole Home & Export Agents—

FREESE & MOON, Ltd.

59 Bermondsey St., LONDON, S.E. 1.

Telephone: Hop 2774. *Telegrams:* "Cevanesco, Berm, London." *Cables:* "Cevanesco London"

801 - - 80/-

Just one of the Beautiful Specimen Announcements

in connection with the

NEW ADVERTISING CAMPAIGN

FOR

CRÊME FIAMETTE

To still further popularise the use of this delightful toilet preparation, we have prepared an advertising campaign which will run through the important National newspapers, and which will certainly arrest the attention of thousands of women.

CRÊME FIAMETTE in its elegant packing is one of the toilet accessories that compels repeat orders. Assisted in its real self-selling merit by the testimonials of the World's most famous and beautiful women, and with our own salesmanship of dainty showcards and strong advertising matter to support it, Creme Fiamette is proving one of those "quick sellers" that the enterprising Retailer so eagerly looks for.

GET YOUR STOCKS OF CRÊME FIAMETTE IN ADVANCE

Write us for particulars of this week's special Bonus offer.

Areco Ltd.

11 Southampton Row, LONDON, W.C. 1.
And at PARIS.

Morny

Paris

Morny Freres Ltd
Retail
201. Regent Street. W.1.
Post Orders & Correspondence
6. New Burlington Street. W.1.

Telephone 4431 & 4432 Regent.

11th November, 1920.

Seven Products Combination Coffrets.

We have prepared for Christmas trade a second series of Combination Coffrets containing Two small (approximately 1-oz) Crystal Flacons of Perfume, Two Gold or Silver-plated Pocket Boxes - one of Solid Face Powder and one of Rouge, Two Silk Corsage Sachets, and a Tube of Lip Salve.

These coffrets are oblong (measuring 5½" x 4¼" x 1½") with hinged lid and fastening, the covering being enamelled leather in a variety of tasteful self-colours, and the lining of satin of harmonising tone. A pocket of drawn satin inside the lid contains the two Corsage Sachets. The case when empty will form an elegant and useful veil or trinket box.

The following choice of perfumes is available:-

	Colour of Coffret.	Minimum Retail Price.
"JUNE ROSES"	Rose Pink	52s 0d
"CHAMINADE"	Antique Brown or Crocodile	55s 0d
"MYSTERIEUSE"	do. do. or Powder Blue	55s 0d
"NOCTURNE"	Emerald Green	52s 0d
"SERENADE"	Powder Blue	52s 0d
"LA VALSE"	Violet	52s 0d
"QUINTESSENCE VIOLETTE MORNY"	Violet	50s 0d
"TRIOMPHE"	Brown Crocodile	65s 0d

If you would like to secure some of these cases we should esteem your early instructions as we have a limited number only, and we cannot obtain a further delivery for this Christmas Season.

MORNY FRERES LTD.

A NEW "MORNY" PERFUME CREATION,

"NOCTURNE"

A REVERIE IN PERFUME.

ELEGANTLY PRESENTED in ORIGINAL MODEL BOTTLE, 10/9 & 21/-

TOILET PREPARATIONS

TREVONA REGD
PURITY AND RELIABILITY

OF QUALITY

A DAINTY AND REFINED TOILET AID.

DELIGHTFULLY PERFUMED.

POUDRE TREVONA

CHARMING FOR THE COMPLEXION.
P.A.T.A. Retail, 2/9 complete.
Wholesale ... ... 22/- doz.

PACKED IN ARTISTIC ALUMINIUM BOX WITH PUFF.
TINTS: ROSE AND NATURELLE.

REALLY RELIABLE TOILET AIDS

P.A.T.A. PRICES.

	Retail	Wholesale
TREVONA Toilet Powder — Delightful and antiseptic. Sprinkler-top tin	1/9	14/- doz.
TREVONA Dental Powder — Pleasant antiseptic, cleansing deodorant. large tin in carton.	1/3	10/- ,,
TREVONA Shampoo Powders — The Ideal Hair Wash. 4½d. each. Box of seven.	2/3	18/- doz.
TREVONA Floral Bath Powder — Highly concentrated. Fragrant and refreshing.	2/3	18/- ,,

DISCOUNT: 5 % on 3 dozen assorted; 10 % on 6 dozen assorted. MONTHLY ACCOUNT: 2½ % Cash Seven Days.
CARRIAGE PAID. SHOWCARDS, ADVERTISING MATTER, etc., SUPPLIED.

TELEPHONE: HOP 5959.

C. R. OLVER & CO.,
97, UPPER KENNINGTON LANE,
VAUXHALL, LONDON, S.E.11.

TELEGRAMS: "OCREVLORC VAUX, LONDON"

To Satisfy your Customers Is to Increase your Business

LINARIS TOILET PREPARATIONS

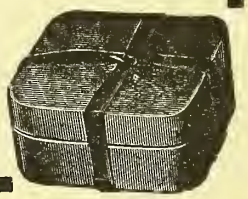
(1) Give absolute satisfaction—Guaranteed
(2) Are prepared from the finest Drugs obtainable.
(3) Show splendid profits to the Retailer.
(4) Invariably bring repeat orders.
(5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

LINARIS Vanishing Cream
LINARIS Bath Powder
LINARIS Henna Shampoo Powder
LINARIS Camomile Shampoo Powder
LINARIS Massage Cream
LINARIS Tonic Cream
LINARIS Beauty Cream
LINARIS Face Powders

Profit of over 33⅓%

Send direct to
LINARIS TOILET PREPARATIONS (Dept. X)
31 Westbourne Grove, London, W.2

Carriage paid on all orders over £5.



ODO-RO-NO

For Excessive Perspiration.

IN CONSTANT DEMAND DURING WINTER DANCE SEASON.

Retail Prices 2/- 4/- 7/6

FROM ALL WHOLESALERS
or direct from
THE AMERICAN DRUG SUPPLY CO., LTD.,
6 Northumberland Avenue - - LONDON, W.C.2.

Only 3 days more

By taking immediate advantage of this offer, you can make a

CASH PROFIT

OF

£3.3.9

ON AN OUTLAY OF ONLY

£4.13.9

The POMEROY SPECIAL OFFER (*see* "C. & D." November 6), **closes on NOVEMBER 30.**

POMEROY TOILET SPECIALITIES.

The Special Offer is made to all Chemists and Druggists undertaking to give not less than 14 days' liberal window display of **Pomeroy Toilet Preparations.**

Send us an Order, with Cash for £5. We will allow you 5% Trade Discount and 2½% Cash Discount. If you undertake to display the Preparations in your windows, we will send you, in addition, a bonus in goods to the value of £1 2s. 6d. Thus an outlay of £4 13s. 9d. will realise a total profit of £3 3s. 9d.

Your Order can be Assorted. Here is a Specimen Order for your guidance.

To MRS. POMEROY, LTD., Pomeroynia House, Walham Green, London, S.W. 6.

In consideration of my receiving 5 per cent. Trade Discount and 2½ per cent. for Cash, together with the above-stated bonus in goods to the face value of £1 2s. 6d., I undertake to give not less than 14 days' liberal display of Pomeroy Toilet Preparations in my window. I enclose cheque for—

£.....

Please send the following—

OUTLAY.

5 doz. 2s. 3d. Skin Food	£5	1	3
Trade Discount 5 % -		5	1
	4	16	2
Cash Discount 2½ % -		2	5
	£4	13	9

CARRIAGE PAID, BOX FREE.

RETURNS.

	£6	15	0
Bonus in Goods:			
¼ doz. Skin Food			
¼ doz. Tooth Paste			
¼ doz. Day Cream			
¼ doz. Shampoo Powders			
Face Value -	1	2	6
	£7	17	6

Mrs. POMEROY LTD., POMEROYNIA HOUSE, WALHAM GREEN, LONDON, S.W.6.

PAPIER POUDRÉ

TRADE MARKS

"LEHCARESOR."

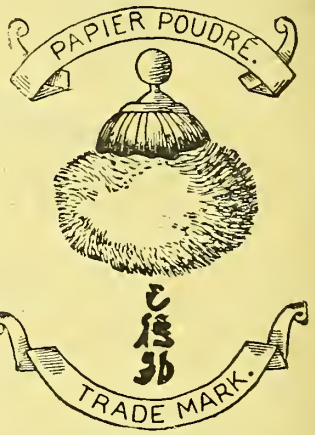
Papier Poudré

British Made Goods.

Beware of Spurious Imitations

Note our Trade Marks.

REGISTERED



PAPIER POUDRÉ, LTD.,
20 Baker St., Portman Sq., London, W.1.
and in Paris.

WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d. and 1/4 size Booklets, 2/8, 3/9, 5/- and 10/- per dozen net, respectively.

SUNBURN TINT, 8d. & 1/4 sizes only, 5/- & 10/- per doz. net.

REFILLS to Mirror Cases in White, Rose or Rachel ... ... **2/8** per doz. net.
8d. SHAVING PADS, for Use after Shaving (unscented). White only ... **5/-** per doz. net.

POPPŒA ROUGE

A most popular line. (Regd.)

Made in booklet form. One size only, viz. **1/–**, at **8/–** per dozen net.
Mirror Cases 1/4 at **10/–** per doz. **Refills** for same **6d.**, at **3/9** per doz. net.

NOTICE TO THE TRADE.—As supplies of material have now reached a state of normal condition we are in the position of being able to execute all orders.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQ., LONDON, W.1

Desrue–Larene

Toilet Requisites

are stocked by most Chemists in preference to any other, as they show a quick sale and larger profits. If you have not yet tried them, do so, you will not regret it.

Try a Sample Order

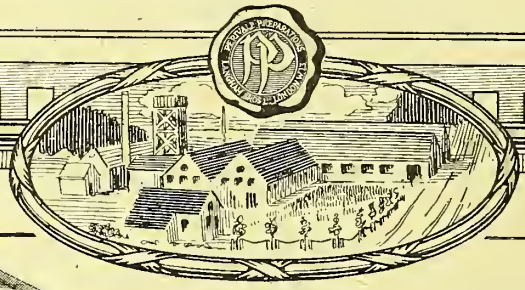
	Doz.
No. 1. CRAYONS JAVANAIS, 1 doz. on card (polishing sticks for the nails)	3/6
No. 2. CRAYONS JAVANAIS, 1 doz. in box	3/-
CRAYONS NEPHTYS (eyebrow pencils) (Black, Brown, Chatain, Blue) :—	
No. 3. Large Size	8/-
No. 4. Medium Size	6/-
No. 5. Small Size	4/-
No. 6. RAISIN SIRIUS À LA VIOLETTE, lip salves, metal cases, 3 colours	10/6
No. 7. COMPACT POWDERS (Pink, Ocre, Naturelle, Violet) ...	9/6
No. 8. POUDRE DES ROSES COMPACT (Light & Dark Reds)	9/6
No. 9. KERATOL (enamel for the nails) (enamel and dissolvant. .	22/6
No. 10. KERATOL (enamel only)	18/-
No. 12. VARENOL (enamel for the nails) (enamel and dissolvant)	14/-
No. 13. VARENOL (enamel only)	9/-
No. 14. DJEM-KIR, large size (liquid red for the lips)	23/6
No. 15. DJEM-KIR, small size (liquid red for the lips)	16/-
No. 16. POMADE ROSAT (Pink and White)	3/6
No. 18. RAISIN NEPHTYS, lip salves. (Red and Scarlet) ...	3/6

DESRUE–LARENE
PARIS :: :: ::

Sole Agents– J. NASSAN & CO.

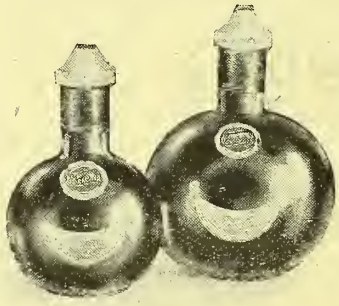
129 Wool Exchange, Basinghall Street, LONDON, E.C. 2.

Telephone : Central 8799.



"Perivale" *Page*

"PERIVALE" VANISHING CREAM (Non-Greasy).



"PERIVALE" MOUTH WASH.

"PERIVALE" PREPARATIONS *For the Toilet.*

IT is to the interest of every retailer to stock **"PERIVALE" PREPARATIONS.**

A **£5** (opening order) bonus parcel, shows ***you a profit*** of **£4 13s. 9d.**

"PERIVALE" PREPARATIONS are of unimpeachable quality, style and merit, guaranteeing a ***quick Sale*** at moderate prices; showing you ***good handling profits.***

Send us a trial ***order to-day*** for our **£5** bonus parcel, you will be more than satisfied with both the goods and results.

This parcel includes Creme de Menthe Toothpaste (the best and most attractive dentifrice on the market).

"Perivale" Mouth Wash.
" Vanishing Cream (Non-greasy).
" Liquid Shampoo.
" Hair Cream.
" Solid Brilliantine.
" Liquid Brilliantine.

together with ***sales-promoting*** advertising materials in the form of beautifully produced showcards window cards, etc.

"PERIVALE" PREPARATIONS add prestige to your establishment and pounds to your bank balance.

DON'T DELAY—ORDER TO-DAY.

THIS WEEK we illustrate two more "PERIVALE" PREPARATIONS.

"PERIVALE" VANISHING CREAM (NON-GREASY).

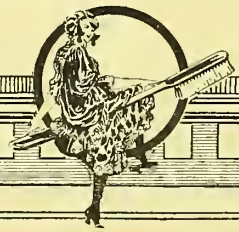
A delightful preparation for cleansing and invigorating the skin, delicately perfumed and an excellent base for powder. Retails at **2/6** and costs **18/9** dozen.

"PERIVALE" MOUTH WASH.

A quick-selling line of attractive appearance. An Antiseptic and refreshing Preparation for cleansing the Mouth. Retails at **2/6** and **3/6**. Costs **18/-** and **24/-** dozen.

HAVE YOU entered for our special Window-Dressing Competition? **£100** in prizes. Write for particulars and entry forms.

LANGHAM BROTHERS, LIMITED,
MANUFACTURERS OF **PERIVALE,** *FINE CHEMICALS,* **WEST EALING, W.13.**



THE ELCO BRAND

THIS SPECIMEN £5 CARRIAGE PAID ORDER, SHOWING A NET PROFIT OF 90% ON COST

carries with it show-outers, show-cards, window transparencies and 100 32-page illustrated booklets with chemist's name and address (for first orders).

		Cost. P.A.T.A.	Selling Price. P.A.T.A. £ s. d.
2 doz.	Elco Borated Dusting Powder @ 8/5	17 -	1 10 0
½ doz.	Elco Beauty Cream @ 15/6	7/9	12 0
1 doz.	Elco Blood Purifier 6 oz. @ 15/-	15/-	1 10 0
½ doz.	Elco Solidified Brilliantine @ 9/6 ...	4/9	7 6
1 doz.	Elco Chilblain Tablets (255) @ 6/- ...	6/-	12 0
2 doz.	Elco Cold Cure Tablets (2 oz.) @ 6/-	12/-	1 4 0
½ doz.	Elco Household Embrocation (4 oz.) @ 13/10	6/11	10 6
1 doz.	Elco Headache and Neuralgia Tablets @ 9/-	9/-	18 0
1 doz.	Elco Tooth Powder @ 13/-	13/-	1 1 0
1 doz.	Elco Vanishing Cream @ 11/6	11/6	1 1 0
		£5/2/11	£9 6 0
	Less 5% Discount ...	5/2	
		£5 17 9	£9 6 0

PROFIT ON COST—90·2%.

Evans Sons Lescher & Webb Ltd.

LIVERPOOL. NEW YORK. LONDON.

BOURJOIS

PARIS.

POUDRE de RIZ de JAVA

No. 45. 2/- Size.		
1 doz.	...	16/- doz.
6 ,,	...	15/9 ,,
12 ,,	...	15/6 ,,

No. 495. 1/3 Size.		
1 doz.	...	11/- doz.
6 ,,	...	10/9 ,,
12 ,,	...	10/6 ,,

The P.A.T.A. prices for "Poudre de Riz de Java" are 2/- and 1/3 per box.

"JAVA" Powder is now being largely advertised to the public.

LOOK TO YOUR STOCKS.

A. BOURJOIS & Cie, Ltd., 66 Carter Lane, LONDON, E.C. 4.

Also manufacturers of the celebrated "ASHES OF ROSES," 15/- per dozen.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Ingram's Milkweed Cream
,, Velveola Souveraine (Face Powder)
,, Zodenta Paste for the Teeth
,, Rouge, Light, Medium, Dark
,, Perfume, 1 oz. assorted in fancy packages

100 Guest-Room Packages free.

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

XMAS IS NOW NEAR

AND YOU SHOULD BE WELL STOCKED WITH

Cook's Gift Caskets

OF RICH BOUQUETS AND LUXURIOUS SOAPS
EXQUISITELY PACKED FOR PRESENTATION.

"RIVERA" ELITE TOILET SOAP
AND PERFUME.

VIOLET CREAM SOAP
AND PERFUMES.

"THRONE" TOILET SOAP
AND PERFUME.

"RIVERA" CASKET.

"THRONE" CASKET.

Please Order at Once. Illustrated Price List on Application.

EDWARD COOK & CO., Ltd., Bow, London, E.3

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

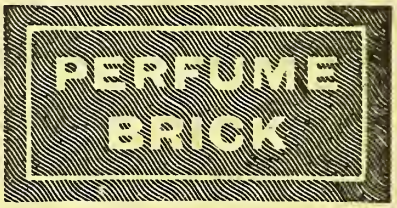
NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

SALES ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A. *Retail Price* **6d.**

WANDA TOILET PUMMICE.
WANDA NAIL POLISH.
WANDA ONE-DROP PERFUME.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,
33 Percy St., London, W. 1.
AND ALL WHOLESALERS.

KEENOLIA Hair Cream.

MADE UP IN TWO SIZES:

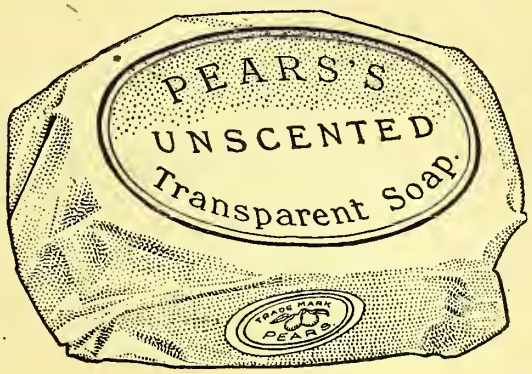
4 oz. retails at 1/3
8 oz. „ „ 2/-

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The . .
"CASSON BRAND"
COLD CREAM
LANOLINE
LAVENDER ICE

THE
CASSON CHEMICAL CO.
LIMITED,
44a WESTBOURNE GROVE, LONDON, W. 2.
Telephones: Park, 2884 & 3568.



Your profits are governed by the length of the time goods remain on your shelves. Pears' Soap always sells quickly.

Pears

Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone."
A big vigorous, impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9

Wholesale :
26/-
PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6

Wholesale :
42/-
PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.

PUFFS of ALL KINDS in DOWN and WOOL.
SOLID FACE POWDERS
COMPLETE WITH PUFFS.
Inquires invited by makers.
F. SCHUTZE & CO., Ltd.,
BLACK BULL WORKS,
Caledonian Market, London, N.7.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied, if desired, at lowest market prices. Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, **London, E.C.1.**

Orisal Regd.

The Orginal and successful Remedy for PYORRHŒA

Prescribed by the Dental Profession.

PRICES.

Wholesale (including Government Duty)			Retail
Dental Paste	22/- per doz.	,, 6d. ...	**2/6 per tube.**
Mouth Wash	44/- ,,	,, 1/- ...	**5/- per bottle.**
Special Brush	24/- ,,	... ...	**2/6 each.**

Of Wholesalers, or direct from

ORISAL Ltd., 77 George St., Portman Sq., W.1.

Who pays *your* rent ?

In one pharmacy in a town of under 10,000 inhabitants this important part of the overhead expenses is paid by the profit on Euthymol Tooth Paste alone.

A truly satisfactory result, amply rewarding the trouble taken.

How is it done ?

By personal interest, bold window and counter displays, and a commission to encourage assistants.

Euthymol
TOOTH PASTE

is from every point of view worthy of your sustained interest. Its enormous world-wide sale rests on the sure basis of merit.

EUTHYMOL PROFITS COME EASILY

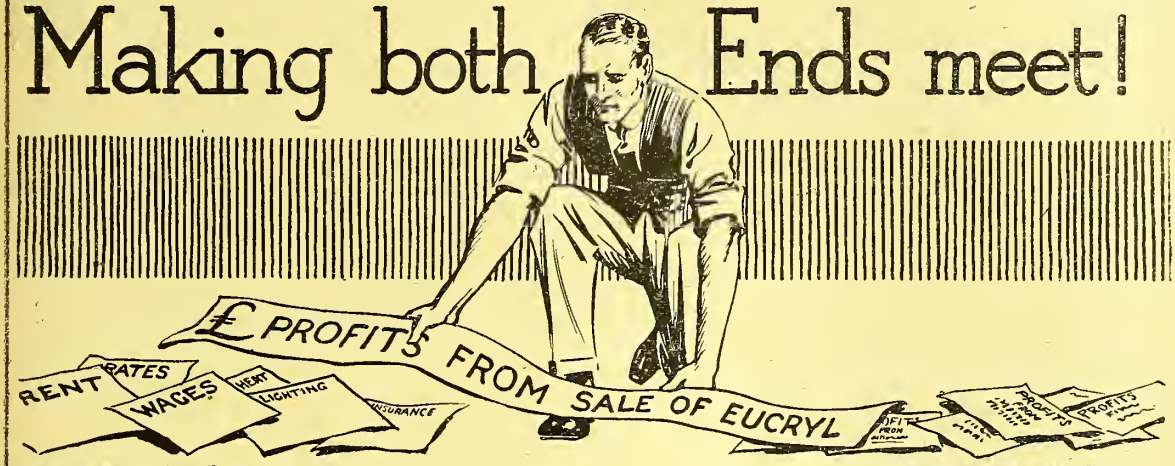
Let Euthymol Tooth Paste help to pay your rent. Write now for best terms.

Telephone—
Regent 3260 (6 lines).
Telegrams—
"Cascara, London."

PARKE, DAVIS & CO.,
LONDON, W. 1.

T.J. 86.

Making both Ends meet!



EXPENSES **TAKINGS**

IN these days of high expenses it is absolutely essential that you should handle quick-selling lines—lines that are in constant demand and which bear a good profit. Under this heading undoubtedly comes EUCRYL DENTIFRICES, for they are efficient, hygienic and reliable products.

The dentists recommend Eucryl dentifrices, the public want them, and they are well advertised.

Stock EUCRYL freely. Display it prominently, and so secure your share of the big profit.

If you are short of stock send us a postcard.

Eucryl Tooth Powder, small tins	**7½d.**
" " " large "	**1/2**
" " " sprinkler tins (magnum size) ...	**1/6**
" " Paste, medium (new size)	**10½d.**
" " " large size	**1/3**

Lycryl Brand Lysol, revised selling prices:—

4-oz. bottle,	**1/3**	16-oz. bottle,	**3/6**
8-oz. "	**2/3**	32-oz. "	**5/9**

EUCRYL LTD., Shirley, SOUTHAMPTON.

Monthly 5-Guinea Cash Prizes Open to all Retailers

To Stimulate New and Enterprising Sales-Making Ideas.

TAKE a look at your window. Look at it from the point of view of a critic asking himself if it shows the best possible kind of window display to arrest and hold the attention of passers-by. Next, think over the all-important question whether your window is paying its rental value.

The window costs every Retailer from 50% to 75% of his rent, and as such should pay the tenant a good profit. Windows there are a-many that are not paying their high proportion of the rent, and immediately this fact is perceived some enterprising and successful new sales-making ideas are bound to arise in the mind of the Retailer.

A Retailers' Revealing Experience.

A London suburban Retailer has had a most encouraging experience of the value of new sales-making ideas in the dressing of his window.

It all arose out of a challenge which this open-minded Retailer accepted in the true British sporting spirit. The story may be briefly told. When the Dentalos Co.'s traveller called on him, he said he was "full up" with dentifrices. The way in which he said it implied that he was more than "full up"—he was "fed up."

The traveller noticed that this Retailer's display did not make the most of its real value, and he offered to dress his window. The chemist agreed, and the traveller made an effective display with "Dentalos" Dental Foam, also tooth brushes and other kindred lines. The result was that this Retailer telephoned for further supplies the next day, and sold within four days a gross and a half of "Dentalos," besides greatly increasing his average sales of many other lines as the direct result of the eye-arresting display bringing in many more customers than his usual "ordinary" window.

True, no small measure of this success was achieved by reason of the central display of the "Dentalos" Prize Competition Show Bill. This Show Bill offers a 120-guinea Fur Coat, or any 1921 Model Motor Cycle or Scooter, as exhibited at the Olympia Exhibition, 1920, for a title for the new "Dentalos" picture poster featuring the "Dentalos" Trade Mark.

Every retailer who would like to enjoy a similar experience of the sales-making value of the same window-dressing idea is here invited to try for one of the monthly 5-guinea Cash Prizes offered to the Trade, and names of the winners of which will be announced in *The Chemist and Druggist* monthly.

The 5-guinea prize is offered for the most interesting "Experience" of the sales-making value of the "Dentalos" Window Display, accompanied by a snap-shot of the display for publication for the information and encouragement of other Retailers.

This idea is really worth trying, for there is also a £25 Cash Prize offered to the Retailer who supplies the winner of the Public Competition with his or her "Dentalos"—and every Competitor has to give the name of his Retailer.

The Dentalos Co. will be pleased to supply the same Show Bills with any size order for "Dentalos" Dental Foam. The Trade Terms are inviting, namely: Retail at 1/3 per tube (Trade at 10/6 per dozen, net monthly a/c, or 5% discount for cash with order.) FREE BONUS to those desirous of trying out this sales-making idea whole-heartedly. 1½ DOZEN TUBES FREE with every order for one gross. Carriage paid on all Cash Orders.

Another point of this proved sales-making idea to note is that many of the buyers of "Dentalos" are buying not one tube at a time, but 3's, 6's, and even dozens of "Dentalos"—which every Chemist will agree has points of superiority ensuring future sales to all who try it.

Where Assistants are employed, here is a chance to awaken *their* interest in sales-making window and counter displays, by the offer of a share or the whole of the Prize Money.

Reading and Thinking are no good without Action—so why not send in your order to-day to—

THE DENTALOS CO., 22 CHARTERHOUSE SQUARE, LONDON, E.C. 1.

Jewsbury & Brown's

MANCHESTER,

Oriental Tooth Paste
Oriental Tooth Powder
Pearlone, The White Tooth Paste

Non-alcoholic CORDIALS of all kinds.

WHOLESALE AGENTS:

For London, Home, Eastern and Western Counties:
ROBERT W. PHILLIPS, Ltd., Craven House, Kingsway, LONDON, W.C.2.

For Scotland:
KERR, PATON & CO., 217 St Vincent Street GLASGOW.

For South and Mid-Wales:
THE STRETTON HILLS MINERAL WATER CO. CHURCH STRETTON, Shropshire.

A *NEW* SIZE OF

CALVERT'S
Carbolic Ointment

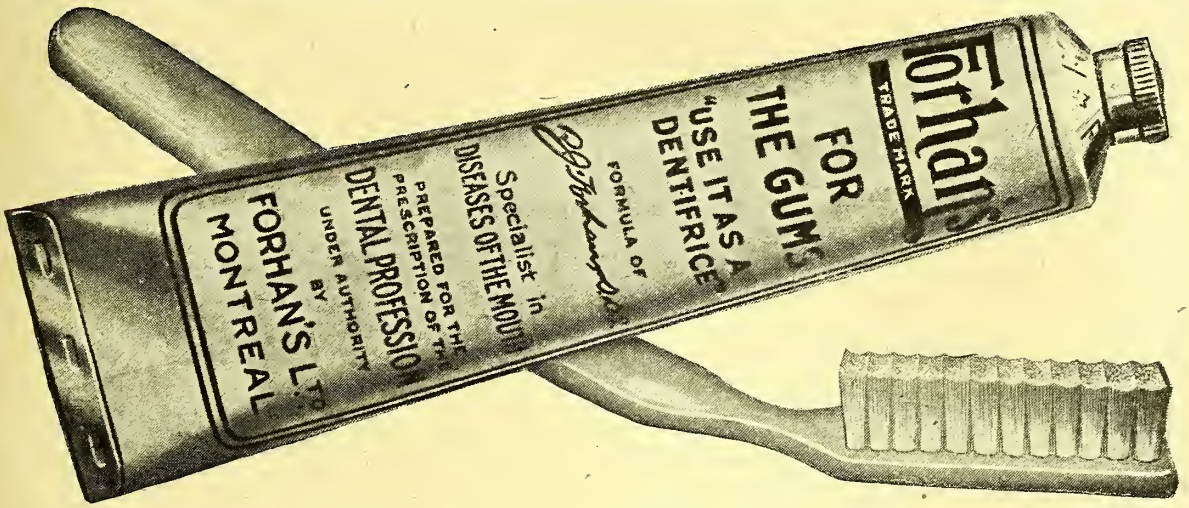
THE **2/3** TIN

has been brought out for the Home market, as the limited supplies of the 2/9 jars are quite inadequate to meet the demand.

To avoid delay and disappointment, therefore, chemists are requested to order their supplies in tins (two sizes, 1/3 and 2/3 retail) instead of the 2/9 jars, which are not likely to be available.

Current Price List sent post free on request.

F. C. CALVERT & CO., MANCHESTER.



These — Defeat Pyorrhea.

FORHAN'S For the Gums is a highly efficient dentifrice to which has been added a certain proportion of Forhan's Astringent. Thus, it not only keeps the teeth white and clean, but it is an active preventative of Pyorrhea.

Dentists prescribe Forhan's for the home use of their patients in conjunction with their own use of Forhan's Astringent at the chair.

Since Forhan's For the Gums was specially formulated for the treatment of Pyorrhea it may be sold to your customers at any hour like any other medicine.

Our powerful advertisements, appearing in metropolitan and provincial newspapers, have introduced Forhan's to millions of new users, resulting in an enormously increased demand for this medicinal dentifrice.

Packed in the double-size tube, keeping indefinitely without hardening, Forhan's will build increased profits and customer goodwill for you. Displays available at your request. Write for prices and full trade information.

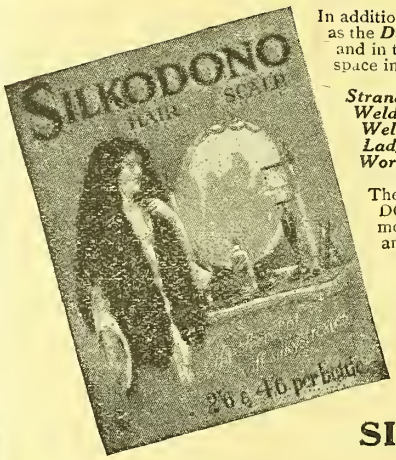
THOS. CHRISTY & CO., 4-12 Old Swan Lane, London, E.C.4.

Forhan's FOR THE GUMS

INCREASED ADVERTISING OF

SILKODONO for the HAIR & SCALP

MEANS MORE BUSINESS FOR YOU



In addition to our Advertising in the leading Newspapers such as the *Daily Mirror, Daily Sketch, News of the World, etc.,* and in the leading Provincial newspapers, we have booked space in the following Magazines and Periodicals:

Strand Magazine, Home Fashions, Fashions for All, Weldon's Journal, Weldon's Children's Fashions, Weldon's Dressmaker, London Mail, Peg's Paper, Lady's Companion, Home Companion, Woman's World, Picture Show, Woman's Weekly, Home Chat.

The public will therefore come to you for SILKODONO in ever-increasing numbers. Be ready to meet their demands. Order your supply to-day and secure the fullest possible benefits of our vigorous Advertising efforts.

Wholesale Prices:—
2/6 size 20/- per dozen
4/6 size 36/- per dozen

Showcards and Dummy Cartons Free for Counter and Window Displays, also Booklets on SILKODONO Hair Culture.

SILK'S TOILET CO.

Red Lion Street, Holborn, London, W.C. 1. Telephone—Holborn 3095. Telegrams—"Silporanob, Holborn, London"

"Jackel's Cream"

(without Grease)
for THE HAIR
Sold everywhere
Established 1883.

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

CRYSTALLISED 1/9 CREAM 2/6
Trade Mark attached to each bottle.

Jackel et Cie (of Paris) Ltd.,
Sauchiehall Street
GLASGOW.

BE SURE AND ADD

La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual,

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

"BORALIA" (Registered)

Coconut Oil Shampoo

Plenty of show matter with all orders.

Smart attractive get-up.

Good value. Quick sales. Good profit.

TWO SIZES:

4-oz. square bottles	...	12/6 doz.	Retail 1/9
2-oz. flat bottles ...	...	8/- ,,	,, 1/3

POTTER & CLARKE Ltd., 60-64 Artillery Lane

LONDON, E.

And 24 Luna Street, Great Ancoats, MANCHESTER.

C. DAMSCHINSKY'S

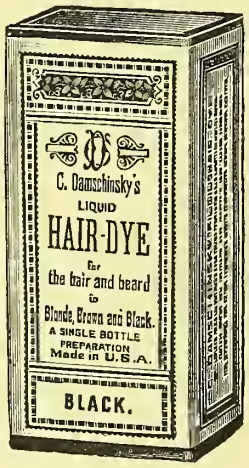
AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- „ 22/- „ „ „



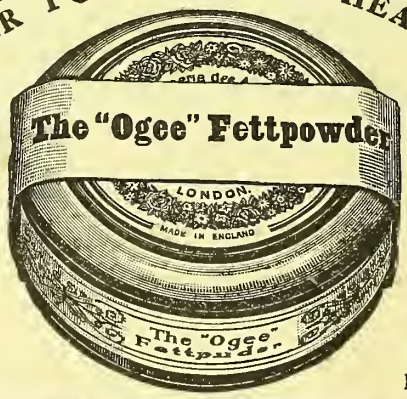
This excellent Dye has an enormous Sale all over the World.

SIMPLE TO USE.
WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.
IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents :

OSBORNE, GARRETT & CO., LIMITED,
LONDON, BIRMINGHAM AND GLASGOW.

THE "OGEE" FETTPOWDER.
THE Ogee
THE Ogee
THE PREMIER POWDER FOR THEATRICAL USE.



In
White,
Rose,
Natural
and Rachel.

PRICE
12/6
PER DOZEN.

PROPRIETORS OF
THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,
AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED,
BIRMINGHAM. **LONDON, W.** GLASGOW.

The Big "HARLENE" Seller

(Special Dummy for Window Displays).

Place this Dummy as prominently in your window as the "Harlene" advertisements are placed in the National newspapers, and you will assuredly reap

A SPLENDID HARVEST.

New customers in their thousands are being made daily by the unique Fourfold Free Gift Offer, and all these new buyers are advised to secure their supplies from Local Drug Stores or Chemists.

This MAMMOTH DUMMY, which measures 14" × 6", placed in your window will remind passers-by of their need, created by widespread publicity in the Press, and you will benefit by the constantly recurring sales.

SO GET THIS HUGE SELLER AT ONCE

and a good stock of "Harlene" Preparations to meet the demand.

IMPORTANT ALTERATION OF PRICE OF CREMEX SHAMPOO POWDERS

Owing to the greatly increased cost of raw materials, and in order to maintain the present high quality, it has been found necessary on and after DECEMBER 1st, 1920, to amend the price of CREMEX SHAMPOO POWDERS. From the above date the RETAIL PRICE will be advanced

FROM 1/1½ TO 1/6 PER BOX

of Seven Shampoo Powders (single packets from 2d. to 3d. each). **Trade Prices** will be amended from **12/6** to **15/10** per dozen boxes of Seven Shampoos each, less 20 %.

These amended prices show you an **INCREASED PROFIT** per sale and percentage.

"HARLENE" TOILET PREPARATIONS

"**Harlene**" for the Hair.
"**Uzon**" Brilliantine
"**Cremex**" Shampoo Powders.
"**Astol**" for Grey Hair.
"**Astine**" Vanishing Cream.
"**Astine**" Tooth Cream.
"**A tine**" Shaving Soap.
"**Astine**" Nail Cream.

For Particulars, Terms, etc., write to

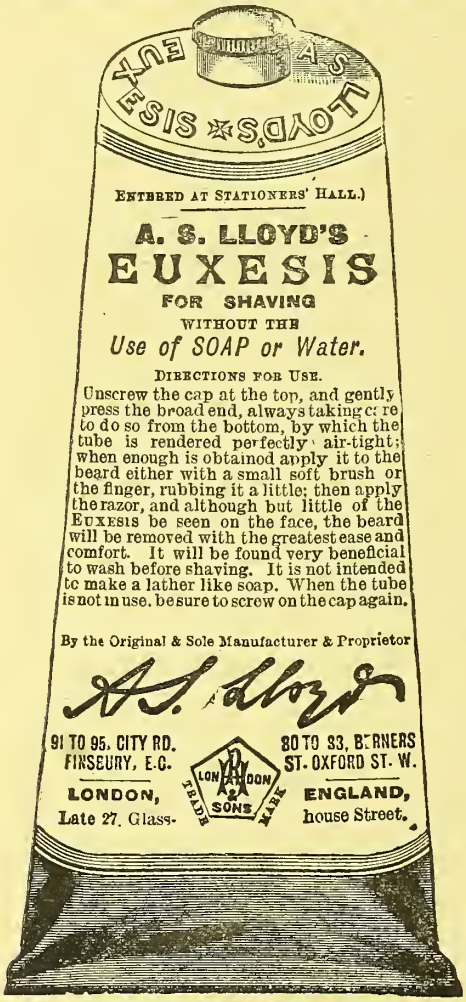
EDWARDS' HARLENE LIMITED,

20, 22, 24, 26 Lamb's Conduit St., London, W.C.1

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,

LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

The

HENNA CULT

of Hair Beauty, based on the famous

EVAN-WILLIAMS

ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line.

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order

THE EVAN WILLIAMS ORIGINAL Henna Shampoo

Wholesale only:

THE EVAN-WILLIAMS CO., LTD.

18 Ogle Street - LONDON, W. 1.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—A. S. Lloyd in Black Ink, and that of his Widow, Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO.**

23 PANTON STREET (formerly named Spur Street), HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

Wholesale and Export ONLY.

COMBS

DRESSING - RAKE - TOOTH

Write for Samples and Quotations for immediate delivery.

J. A. BROTHERS,

17/18 Chapel St., Whitecross St., London, E.C.2

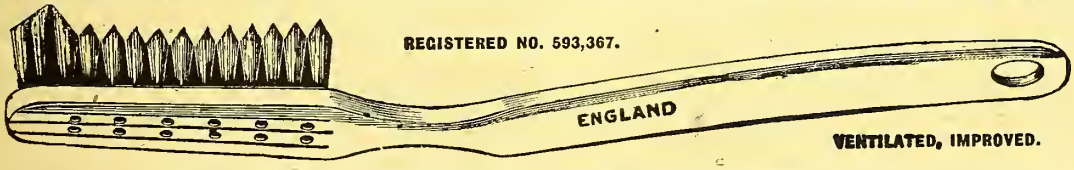
Phone: CITY 5321.

ROBERT ADDIS & SON,

— Tooth Brush Manufacturers, — London Brush Works, London Fields, E.8.

The "ASEPTIC" or "PROPHYLACTIC."

When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.



To be obtained from Wholesale Houses. Packed in cartons, facilitates sales and ensures brush reaching user in clean and antiseptic condition.

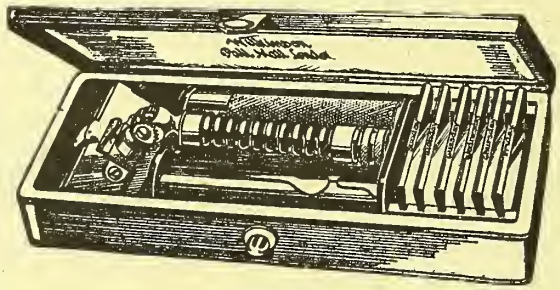
THE WILKINSON SWORD CO. LTD.,

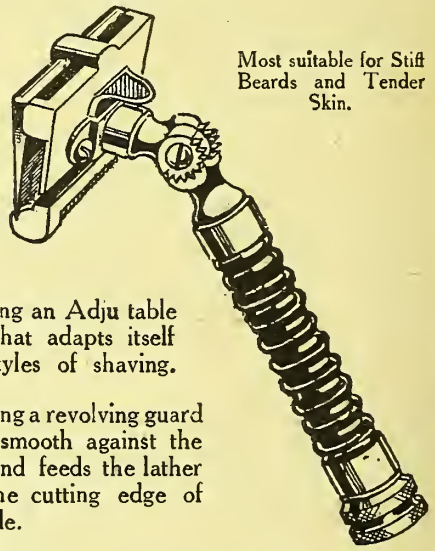
of 53 PALL MALL, LONDON, *are the only manufacturers of the*

WILKINSON NEW MODEL SAFETY SHAVER.

In neat Leather Case with SEVEN real lasting SOLID BLADES.

THERE'S A POWER BEHIND EACH EDGE.





Most suitable for Stiff Beards and Tender Skin.

Possessing an Adju table Head that adapts itself to all styles of shaving.

Possessing a revolving guard that is smooth against the cheek and feeds the lather on to the cutting edge of the blade.

THE MOST UP-TO-DATE SHAVER IN THE WORLD.

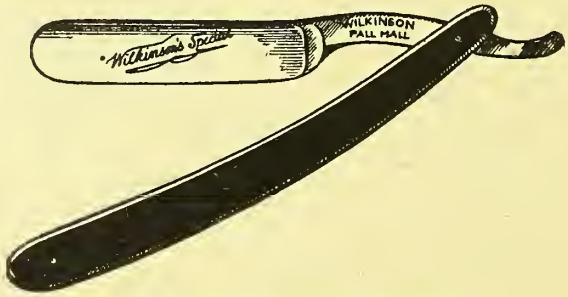
WILKINSON'S CELEBRATED SWORD-STEEL RAZORS

SWORD STICKS

IN LARGE VARIETY.

Are famous throughout the world, and are renowned for their SUPERFINE EDGE.

"SPECIAL." "W. & CROWN." "LANCE."



WRITE FOR CATALOGUE NOW.

WILKINSON'S DOUBLE ACTION STROPPING MACHINE adds keenness and life to your RAZOR.

All Orders and Inquiries to—

THE WILKINSON CUTLERY Co., Ltd.,

"Tudor House," Rathbone Place, Oxford Street, London.

Chemists—please note

This Advertisement is appearing in the following publications during November and December :—

Ladies' Field	Sphere	Home Notes	Daily Mirror
Gentlewoman	Pictures	Vogue	Picture Plays
Eve	Woman's Life	Tatler	Sunday Express
Sketch	Reynolds' Newspaper	Illustrated London News	Weldon's Ladies' Journal
Graphic	Lady's Pictorial	Bystander	Fashions for All
Sporting & Dramatic News	Queen		

No. 17
84/- dozen

The Cutex Travelling Set
P.A.T.A.
9/6

Contains just what you need to keep your nails beautifully manicured—all full-sized packages. Cutex Cuticle Remover that does away with ruinous cutting; Cutex Nail White, to remove stains and discolorations and give your nail-tips a snowy whiteness; Cutex Cake Polish and Cutex Paste Polish (pink) to give your nails the fashionable finish.

In addition, you get a double-cut steel file, emery boards, orange stick, absorbent cotton and an invaluable little booklet on the care of the nails. All combined in a stunning set, so compact, so convenient that many people carry it with them wherever they go.

In one stunning set—everything to keep your nails beautifully manicured

Also the No. 16 **Compact Manicure Set**—Wholesale **27/-** dozen; Retail P.A.T.A. **3/-**
And No. 18 **Boudoir** „ „ „ **168/-** „ „ **19/-**

"CUTEX" Manicure Sets enjoy an unusually heavy sale with the approach of the Christmas season. Last year the demand far exceeded the supply. This year, due to special advertising, it will be still heavier. We respectfully urge customers to place their orders well in advance to avoid disappointment.

Sole Agents for the United Kingdom :

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TRADE MARK

RUBBER SPONGES

Are durable and do not harden. When used with soap, they make a delightful lather.

Obtainable of all Wholesale Druggists' Sundries Houses

MARKT & CO., LONDON, LTD.

American Merchants

SOLE IMPORTERS

98-100 CLERKENWELL ROAD, LONDON, E.C. 1.

"Comet" Vacuum FLASKS.

Every flask tested at the works before dispatch.

Mayfair Chemical Co.,

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Tel. No.: City 3373.
Tel. Add.: "Agenda, Cannon, London."

TRADE MARK.

PERFECTUM SERIES

Your Inquiries Esteemed for

Manicure Sets	from	2/- each
Perfume Sprays	,,	3/- ,,
Shaving Sets	,,	4/- ,,
Badger Shaving Brushes	from	4/6 ,,

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MANCHESTER and GLASGOW.

Telegrams: "Aybelim, Finsquare, London."
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HOUPPES

Perfumed Sachet Pads

ODORANTES

Daintily Scented FOR *Dainty Linen.*

5 DISTINCT PERFUMES

MUGUET DE BOIS (Lily of the Valley). ROSE
VIOLETTE. MIMOSA
PINKS

HOUPPES ODORANTES · Perfumed Sachet Pads · HOUPPES ODORANTES

From your Wholesaler, or write to

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Phone: Holborn 3182. *Grams:* "Aedeprelon, Smith, London."

WHOLESALE & EXPORT ONLY.

GET IN TOUCH WITH US FOR

COMBS

DRESSING...DUST...POCKET

BRUSHES

HAIR....TOOTH....NAIL... SHAVING

NAIL FILES
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ORANGE STICKS
TOILET CHAMOIS
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The House for Toilet Requisites,

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Telephone: CITY 3125.

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Bigg Market, NEWCASTLE-ON-TYNE.

THE

"Culmak"

SHAVING BRUSH

See the Guarantee Label

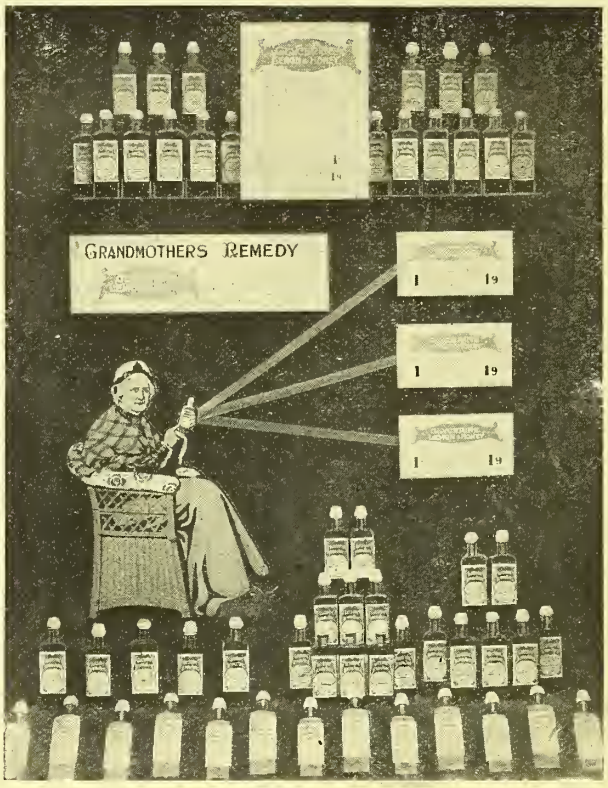
SELLING PRICES

4/6 to 15/-

To be obtained from all Wholesalers

IT PAYS YOU **33 1/3 %**

P.A.T.A.



GLYCERINE LEMON & HONEY.

The SELLING LINE of the SEASON.

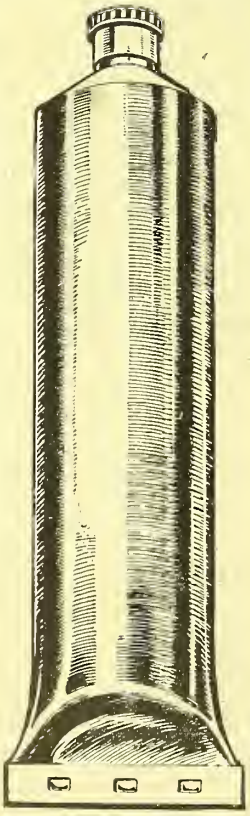
TWO SIZES:

8/6 per doz.
14/6 „ „

Cash with order, or net monthly account against satisfactory trade references.
1 gross, either size or assorted, with splendid window show, instructions for placing and price tickets.
Carriage Paid, Packages Free, on two gross orders.

Label and show restricted in each district.

E. H. BUTLER & SON
Manufacturing Chemists, 93 Humberstone Gate, **LEICESTER.**



Tubes that attract

Let your collapsible tubes be more than mere containers

REMEMBER—the prospective customers see the tube first. When you are ordering your next supply get Venesta Tubes, they have that quality and finish that is going to help you sell the goods.

Made in pure tin, lead, and lead coated with tin, plain, enamelled and printed with designs to customers' own requirements.

Write for particulars and current prices—your inquiries will receive our immediate attention.

TIN FOIL

We also manufacture Tin Foil in sheets or reels, highly polished, plain, embossed or coloured, and suitable for every purpose.

Venesta Ltd
Collapsible Tubes
1. Great Tower Street, London. E.C.3.

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Christmas PERFUMERY Catalogue

CONTAINS PARTICULARS OF *(33rd issue)*

Perfumery in Fancy Bottles and Boxes.

PRICES RANGING FROM
: : 6d. to 40/- : :

A POSTCARD BRINGS
ONE PER RETURN

Sample Assortments

OF POPULAR LINES

		WHOLESALE VALUE	RETAILING	
Set A ...	11 boxes	20/10	1/9 to 4/- ...	£1
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SPECIAL OFFER

THREE OF THE ABOVE SETS SENT CARRIAGE PAID TO ANY CHEMIST IN GREAT BRITAIN OR IRELAND

" OWN " BOUQUETS

Sample of Bottles, Labels and Perfumes & any information sent on application.

DEVONSHIRE VIOLETS
„ ROSES
„ LILIES
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CORNISH WALLFLOWERS

THE " TRUE-TO-NATURE " PERFUMES

Samples on Application.

Southall Bros. & Barclay, Ltd., Birmingham.

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

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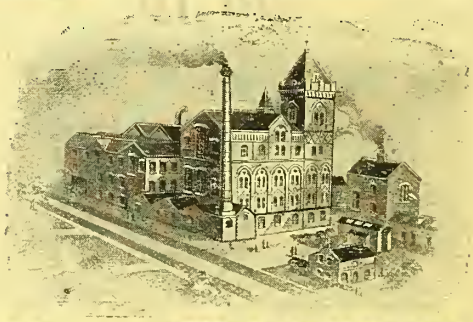
And of ST. JOHN'S, N.F. Established 1780.

"John  Bull" (REGD.)

MALT EXTRACT

and

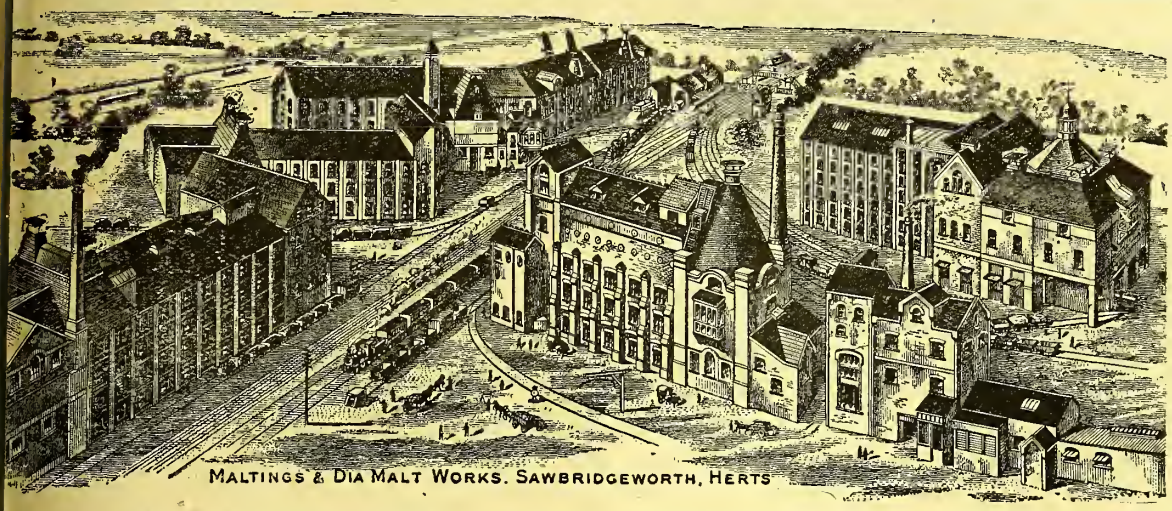
COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

MALT EXTRACT POWDER. MALT FLOUR for INFANTS' and INVALIDS' FOODS.

PAINE & CO., LTD., ST. NEOTS, HUNTS.



MALT EXTRACT & COD LIVER OIL

Guaranteed 15 per Cent. In Strict Accordance with B.P.C. and N.H.I. Requirements

Only Finest Norwegian Cod Liver Oil is used.

Supplied in SCREW-CAPPED, AIR-TIGHT Round AMBER JARS

Quotations and Specimen Labels on application. *Terms : Net Cash, Monthly a/c, Carriage Paid*

Chemist's own Name and Address printed on label on orders of 6 dozen upwards

Season Contracts are NOW being booked

H. A. & D. TAYLOR, Ltd.

HIGH-CLASS MALT EXTRACT MANUFACTURERS.

Head Office: SAWBRIDGEWORTH, HERTS.

Maltings at Sawbridgeworth, Bishops Stortford, Bury St. Edmunds, Newmarket, and Newark-on-Trent.

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On the List of Government Contractors

EKLIPS

TRADE MARKS.

Telephone No. 1831 HOP.
Telegraphic Address: "Eklips London."
"A B C" Code, 5th Ed.; and Lieber's.

AWARD: LONDON, 1881—"For Excellency of Quality."

H. E. STEVENSON & Co.

Emulsion Specialists and Manufacturing Chemists,
122 GREAT SUFFOLK STREET, LONDON, S.E.1.

Mr. STEVENSON was for many years a Director of BAISS BROTHERS & STEVENSON, Limited.

1880 **1920**

COD LIVER OIL EMULSION

"4 Medals" Brand.

THE SUPERIORITY OF OUR EMULSION

is largely due to the special base used, the result being a creamy, palatable and inseparable preparation, readily taken by children, and remaining unchanged for years. We have samples, eight years old, showing only slight separation even after this lapse of time.

Present Prices subject to fluctuations. Cartons extra.

COD LIVER OIL EMULSION WITH HYPOPHOSPHITES 33%

4,	6,	8,	12,	16,	24,	32 oz.
9/6	**11/6**	**14/6**	**20/-**	**26/-**	**36/-**	**48/- per doz.**

PARRISH'S SYRUP.

Made from white Cane Sugar and purest Phosphoric Acid by an original process, this Syrup is free from silica and any "inky" taste. We shall be pleased to hear from buyers of 2 cwt. and upwards, either in bulk or packed in 4-oz. and 8-oz. coloured cartons.

Special quotations for quantity.

Telegrams:
"Refreshing, Cent, LONDON."

R. J. REUTER

(Established 1892)

Telephones:
Central
4461 and 4462.

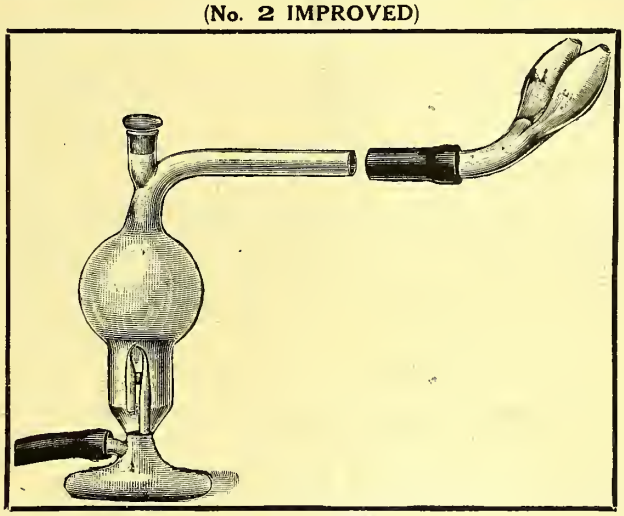
Head Office: **69 CARTER LANE, LONDON, E.C.4.**

Our Latest Production.

THE ARISTON ALL-GLASS NEBULATOR.

(No. 2 IMPROVED)

For NOSE or THROAT.



Will Nebulize the Heaviest Oils.

Regd. No. 675990.

Price - - 72/- dozen. Usual Discount.

STRONG SOLUTIONS OF ACTIVE DRUGS which in the ordinary way are irritant, can be safely prescribed for application through the Ariston No. 2 Nebulator, ***as the Vapour is evolved in the finest possible state of Sub-division, and may be inhaled into the Lungs direct if desired.***

WE ARE SOLE MANUFACTURERS OF

THE ARISTON No. 1 ALL-GLASS CLOUDIZER.

For Nose or Throat - - - **48/-** dozen.

"VĒVAX" FOLDING ALL-GLASS POCKET ATOMIZER.

For Nose or Throat - - - **51/-** dozen.

The most useful ordinary Atomizers extant.

ALL-GLASS SPRAY PRODUCERS
Will vaporize Oils or Water.

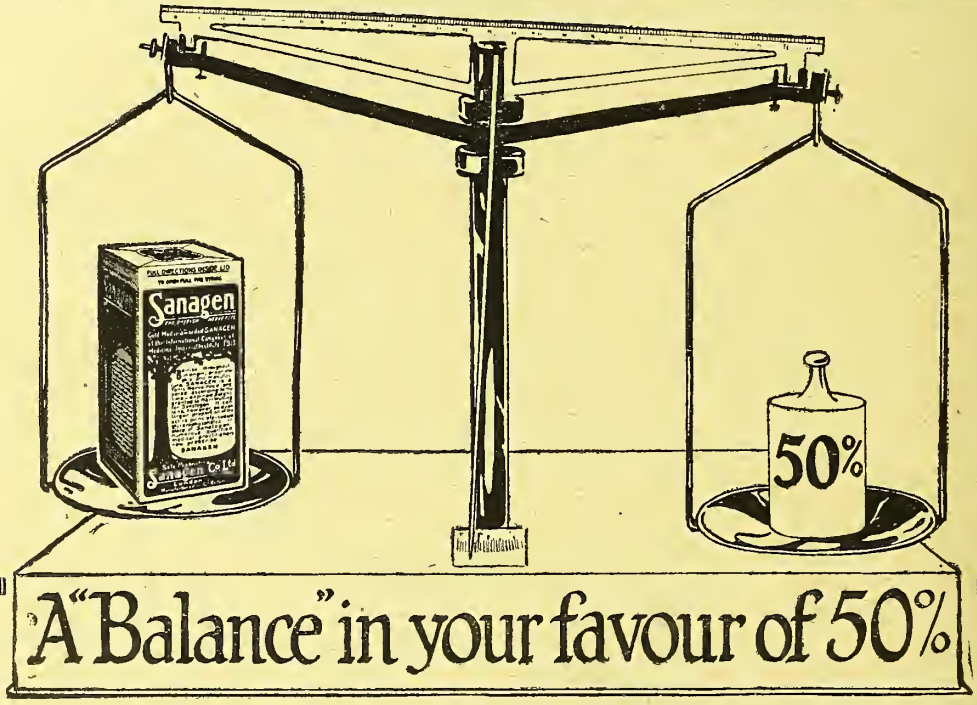
The "ALPHA" For the Throat	- **48/-**	doz.
The "OMEGA" For the Nose	- - **48/-**	doz.
***The "PARVO"** Miniature Spray	- **48/-**	doz.

(*For expensive solutions in small quantities.) Usual Discounts.

Factory:
Queen's Buildings,
Elliott's Court,
Old Bailey,
E.C.

The Pharmacist who holds complete stock of above lines is always in a position to fulfil the requirements of either medical man or patient for any kind of Spray Producer, Atomizer or Nebulizer at a moment's notice.

Scientific Glass Blowing Works:
31 St. Ann's Chambers,
E.C.



THINK of the many acts of Public Service you render every week. And the Chemist renders services with more true courtesy and at less weekly profit to himself than others who pay high shop rents and rates and expenses.

Sanagen

Trade Mark Regd

THE ALWAYS BRITISH NERVE FOOD

pays a 50% profit to the Chemist in recognition of his dual Professional and Trading Services, as follows :

SIZES, RETAIL AND TRADE PRICES AND PROFITS.

4 oz.	Costs 2/-	Sells 3/-	PROFIT 1/-
8 oz.	Costs 3/4	Sells 5/-	PROFIT 1/8
16 oz.	Costs 6/4	Sells 9/6	PROFIT 3/2

SANAGEN COMPANY LTD.

Sheepcote Lane, Battersea - - - LONDON, S.W. 11

Telephone: Latchmere 4363.

The most eminent Physicians and Surgeons prescribe "OPPENHEIMER" products because of their reliability.

"BI-PALATINOIDS"

OF NASCENT

FERROUS CARBONATE (No. 500)

The Standard Hæmatinic. *NO Chemist can afford to be without them.*

Medical men agree that there is no more valuable Tonic Food.

"ROBOLEINE"

Children agree that there is none so palatable.

The Chemist who doesn't maintain his stock of "Roboleine" makes a mistake.

P.A.T.A. PRICES SHOW YOU A HANDSOME PROFIT.

Write for Special WINDOW DISPLAY Terms giving you a Profit of **50** % on your outlay.

"MAGLACTIS"

"The Cream of Magnesia."—*Lancet.*

Neutralises Stomachic Acidity without Evolution of Gas.

P.A.T.A. Terms yield you a Profit of 35 % on your outlay, and Special WINDOW SHOW Terms **45** %

OPPENHEIMER, SON & CO., LTD.

179 Queen Victoria Street, LONDON, E.C. 4.

Entirely British House since Foundation in 1891.

One Thousand Guineas

offered by the Proprietors of

Great Window Display Competition.

FIRST PRIZE	£100	FOURTH PRIZE	£25
SECOND „	£75	10 PRIZES of	£20 each
THIRD „	£50	20 „	£10 „

EIGHTY PRIZES OF £5 EACH.

The Directors of Winox, Ltd., will present the above Cash Prizes for the most effective display of their famous Tonic Wine. Every customer of the Company in the British Isles is eligible for these valuable prizes, and can compete as often as desired while the competition is in force.

The efforts of Competitors will be judged from a photograph furnished at the expense of each customer, and the awards made by a committee—independent of the Company—comprising the Advertisement Managers of at least five of the principal Trade Papers.

It is quite possible for a competitor to win more than one prize, as every photograph will be judged independently.

In order to compete it is not necessary to have a huge window display or even send large or expensive photographs, as the judges are all practical business men, but it is imperative that all pictures must be clear and sharp, showing details distinctly, with name and address, giving date period of Exhibit clearly written on the back of each photo.

The Competition is open from now until June 30. The 114 prizes will be awarded on July 15, 1921, providing that the number of competitors are at least four times the number of prizes offered. A complete list of awards will be duly advertised in the Trade Papers.

Showcards and other Advertising matter will be supplied freely on request. All communications to be addressed to the Sales Manager,

The £100 Post Card Competition to the Public, extensively advertised, is creating a colossal demand for Winox. If you are not displaying this Special Bill in your window you are missing big profits. Further copies sent on request. Send your order to-day and secure the big Window Display Discounts. 1/1½ per bottle :: :: profit. :: ::

WINOX, LTD., RICHMOND, SURREY.

Don't fail to display the £100 Post Card Contest Window Bill.

'WELLCOME' CHEMICAL WORKS
DARTFORD, KENT

TRADE MARK **'WELLCOME'** BRAND

QUININE SULPHATE

and

TRADE MARK **'WELLCOME'** BRAND

SODIUM SALICYLATE

(Flake and Powder)

Available in large quantities for immediate delivery

Prices on application

BURROUGHS WELLCOME & CO., LONDON

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CHRISTMAS 1920. Handsome Presents:—

Real "Sussex Violet" and Real "Sussex Rose" Perfume	1 & 2-oz. bottles 30/- and 56/- to retail at 3/6 and 6/6 each
do. do.	Concentrated. "Drop" Bottles in attractive carton, 18/- doz., retail 2/- each.
do. do.	A casket containing one bottle of each, 72/- dozen, retail 8/-.
Real "Sussex Violet" Toilet Soap	Boxes of 3, smartly labelled, 28/- doz., retail 3/6 box.

Arthur H. Cox & Co. Ltd. Manufacturing Chemists Est. 1839 Brighton

The *Lancet* describes it as "Mr. Benger's admirable preparation."

FOOD FOR INFANTS

BENGER'S

GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117, Pitt St., Sydney, Australia; 90, Beekman St., New York, U.S.A. Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal and Branches.

SHOWCARDS AND HANDBILLS ON APPLICATION.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

INVALIDS AND THE AGED.

46

ZEPTO PENCILS FROM HERE, THERE AND EVERYWHERE **ZEPTO PENCILS**

by post, 'phone, travellers, all calling for 6 dozen "Zepto" Pencils on Window Display Terms, all because we have launched another wonderful "Business-bringer," this time called

"ALL THE MONEY IN THE WORLD"

If you are not one of the fortunate ones just drop that postcard, wire, or 'phone message (City 4278 and City 4279), and equally speedily will the 6 dozen, etc., be despatched. Act quickly, however, or you may be too late, and have the doubtful pleasure of seeing others secure the extra business.

5/3 PER DOZ. — EA. P.A.T.A. **9D.**

BY THE WAY

Did you get the 3 doz. 1/6 jars at 10/6 doz.?

NYAL'S FACE CREAM

Better than any at equal or thrice the price. A new showcard is ready, and goes out with every order, however small.

THOS. CHRISTY & CO., 4-12 OLD SWAN LANE, LONDON, E.C.4.

THE CHEMIST AND DRUGGIST

ESTAB 1859

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d*. post free; *Diary*, 5*s*. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

Terms for Advertising may be obtained on application to the Publisher

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Coming Events.

Wednesday, December 1.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

Scottish Pharmaceutical Federation (Edinburgh Branch), Caledonian Station Hotel, Edinburgh. Annual dinner (in conjunction with the Chemists' Golf Club).

North Irish Pharmacists' Association, Visitors' Room, Assembly Buildings, Belfast. Annual meeting, to be followed by a lecture by Dr. J. S. White, of London, on "The Nature and Uses of Biological Products."

Thursday, December 2.

Ealing Pharmacists' Association, Jacobean Restaurant, Ealing Broadway, at 7.30 P.M. Progressive whist party (tickets 3*s*. 6*d*. each, including refreshments). Proceeds in aid of the Pharmaceutical Society's Benevolent Fund.

The Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Ordinary scientific meeting.

IT is announced that chemists and medical men who have belonged to the allied and neutral armies are invited to attend an International Congress of Military Medicine and Chemistry to be held in Brussels in June 1921. Communications on the subject should be addressed to Dr. J. Voncken, Military Hospital, Liège.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Re-exports of Chemicals.

At the recent interview between the Chemical and Dyestuff Traders' Association and Mr. Percy Ashley, of the Board of Trade, respecting the Government Bill for the prohibition of imports subject to a licensing system, attention was drawn to the position of goods imported for re-exportation, and it was suggested that it might be possible, though admittedly difficult, to formulate a scheme by which chemicals and dyestuffs on the prohibited list might still, under adequate safeguards against abuse, be permitted to be imported expressly for the purpose of re-exportation. As the result of this suggestion a sub-committee of the Association has prepared the following memorandum, which has been submitted to the Board of Trade:

1. That the import for re-export of goods in bond should be generally permitted, subject to the goods remaining in control of the Customs authorities until re-exportation is effected.

2. That in all cases where the goods so imported are being re-exported in their original packages (any changes being confined to external marks and numbers) the goods should be held in bond until shipment is made for re-exportation.

3. That in all cases where goods have to be repacked before re-exportation arrangements should be made whereby the repacking should be effected under proper supervision while the goods are under bond at the port of arrival.

We are of opinion that any such system to be effectively worked would involve the provision that the repacking of goods imported expressly for re-exportation should be carried out by persons or firms licensed by the Board of Trade to do such work, and that then the Board of Trade would only grant licences for the importation expressly for re-exportation to persons or firms whose commercial integrity is unquestionable.

If such principles are established and applied and the Board of Trade exercise full discretionary power as to whom licences can properly be granted, the danger in respect of adulteration or sophistication of re-exports would be overcome in a satisfactory manner, and the scheme would be as acceptable to the trade as any system of restrictions is likely to be.

House-organs.

The following are among the house-organs that have reached us during the month:

"The Triangle" (Prescott & Co., Rutland Mills, Hulme) is accompanied this month by a copy of "Index, 1921." Each should achieve its object—the former to interest the chemist's children, and the latter, containing a list of chemicals prepared by the firm, to interest the chemist himself.

"Moorland Tonic" (W. B. Cartwright, Ltd., Rawdon), of which the first number has just been issued, is to be published quarterly. It is cleverly printed, interesting, and instructive. The proprietors are anxious to assist pharmacists in building up their businesses, and the current number, with that object in view, deals with advertising and salesmanship, and is well illustrated by reproductions of window-displays.

"Ye Bowe Bells Magazine" (Edward Cook & Co., Ltd., London, E. 3), of which "No. 19, priceless," has just appeared, will in future be issued quarterly. The current number contains a record of recent events connected with the company's employees. There are also several items of interest to those otherwise in touch with Messrs. Cook, a place of honour being given to an account of Mr. Herbert Saunders's twenty-one years' captaincy of a Boys' Brigade.

"Camera House Journal" (W. Butcher & Sons, Ltd., London, E.C. 4) contains a description of a number of photographic and other goods which may, with advantage, be displayed in pharmacies at the present time. It is noted that repairs to cameras are carried out more

expeditiously now than during the rush season. Messrs. Butcher are now running a motor-delivery service to districts around London three times a week: a schedule of the places and days of delivery is given.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Mayfield, Mary E. Haslam, described as a land girl, committed suicide by taking weed-killer. At the inquest, held on November 24, a "Temporary insanity" verdict was returned.

A similar verdict was given in another case in the same coroner's court on the same date, the victim being a parlourmaid named Violet V. Lillie, who took hydrochloric acid with a fatal result.

An inquest was held by the South-West London coroner recently on the body of Thomas E. Smith, a sign-writer, who, the evidence showed, had died of morphine poisoning while in an advanced stage of locomotor ataxy. The coroner's officer said the deceased always got morphine tablets from Farmer & Co., chemists, High Street, Putney. The last lot was obtained on a prescription from Dr. Nobbs. It was initialled by him to repeat. A medical witness remarked that a patient had been known to take 20 gr. of morphine in a day. The coroner recorded a verdict of "Death from misadventure."

Birmingham.

The city analyst (Mr. J. F. Liverseege, F.I.C.), in his recently-issued report, comments upon egg- and custard-powders, and expresses the opinion that they do not come under the Food and Drugs Acts, but might be dealt with under the Merchandise Marks Act. Saccharin, which was found in one of the samples examined by him, he considers inadmissible in such preparations.

Leeds.

The annual report of the Leeds Public Dispensary shows a deficit of 687*l*. A new wing is to be built, and an *x*-ray equipment is to be installed.

At Leeds Police Court, recently, Mr. J. R. Bentley, chemist and druggist, Kirkgate, and Mr. W. Rogers, his assistant, were summoned for alleged offences under the Venereal Disease Act. The evidence for the prosecution was to the effect that on two dates Mr. Rogers prescribed iodoform ointment for local symptoms associated with a venereal disease, and that on another date Mr. Bentley supplied ointment and a bandage for a swelling in the groin of a miner. After a lengthy hearing, the stipendiary magistrate dismissed the summonses.

Liverpool.

White frosts and a searching, bitter wind have brought winter lines to the front.

The *C. & D.* voting-paper has aroused much interest as a timely opening for an expression of opinion.

Mr. John H. Robinson is taking a short vacation at Windermere. Mr. E. G. Hodges, who has had a long holiday in the South, is acting as *locum tenens* at Exchange Station Pharmacy.

The post-Conference dinner has been voted a great success by the guests of both sexes. The ex-Lord Mayor and Mr. Harold Wyatt were each called upon to speak at very short notice, but both responded aptly.

Mr. G. E. Marfitt (Leicester), in sending to a Liverpool friend a photograph of his 1,000*l*. competition window for the White City Exhibition, writes: "I hear that window-dressing has bucked up in Liverpool since my visit; that is a big compliment to myself." There are, in fact, several good window-displays in the city. Budden & Co., Lime Street, make an effective exhibition of manicure methods; and toilet preparations are shown in a rising-tier display by McGuffie & Co., Castle Street.

Sheffield.

Mrs. J. C. Gibson, who was taken ill at our Society's whist drive, is making a satisfactory recovery.

Spurious 1*l*. notes are being circulated under the series number 29. The main feature of them is the indistinctness of the Houses of Parliament.

Local chemists appear to have an open mind on the new trade body to be established. They wish to be associated with some well-considered plan, irrespective of its source.

Inquiries are being made in pharmacies in the district as to the *personnel* of the dispensing-counter. Chemists need hardly be reminded that the production of some authority on the part of the questioner is advisable in such cases.

A recently dispensed clinic prescription cost 11*s*., and carried a dispensing-fee of 3*s*. 9*d*. Although this may be an extreme instance, nearly all these prescriptions are expensive. If they are correctly priced, there is an end of the matter so far as the pharmacist is concerned.

Miscellaneous.

Poison-licence Application.—W. R. Hillier, West Street, Reigate, has applied to the local authority for a licence to sell horticultural poisons.

New Laboratories at Rothamsted.—The existing laboratories at Rothamsted are about to be extended, with the primary object of investigating the diseases and enemies of agricultural crops. Most of the money required has been subscribed, among the contributors being: The Basic Slag Association, 250*l*.; the Fertiliser Manufacturers' Association, 250*l*.; the Chilean Nitrate Committee, 200*l*.; British Sulphate of Ammonia Federation, 200*l*.; The British Cyanides Co., Ltd., 100*l*.; Sutton & Sons, 100*l*.

Institute of Physics.—The Institute of Physics, formed with the objects of securing the recognition of the professional status of the physicist and of co-ordinating the work of societies interested in physical science or in its applications, will hold its first meeting early in 1921. The President is Sir Richard Glazebrook, F.R.S., and the secretary Mr. F. S. Spiers, 10 Essex Street, London, W.C. 2. The following societies are participating in the inauguration of the Institute: The Physical Society of London, the Optical Society, the Faraday Society, the Royal Microscopical Society, and the Röntgen Society.

Industrial-film Demonstration.—The possibilities of cinematograph films in fostering trade were demonstrated recently at the Majestic Theatre, Hull, in connection with the Dominions Touring Exhibition, which the Department of Overseas Trade is organising. The exhibition (as already announced) will carry specially selected samples of British-manufactured goods, but it will be impossible to take bulky manufactures, and in such cases motion-pictures may be of service. Several Hull companies have chosen this latter method of showing to the world processes of manufacture at their works, including Blundell, Spence & Co., Ltd. There was a large attendance to witness the films, which have been made by the Educational Films Co.

In the Courts.—At West London Police Court, on November 17, Mr. John Rippon, chemist and druggist, 49 Elizabeth Street, S.W. 1, was charged with being a suspected person. After the police evidence had been heard, the case was dismissed.—At Stratford Police Court, Essex, on November 18, a man named Bartlett, who was eventually committed for trial on a charge of murder, alleged that his victim was in pain in consequence of having taken salt of lemon, and that he then strangled her. Dr. Bernard Spilsbury, however, stated in evidence that he found no sign of corrosive or irritant poisoning in his *post-mortem* examination; and Dr. Roche Lynch, Home Office analyst, deposed that he was unable to detect any poison during his investigation. Evidence was given by Edmonton chemists to the effect that the deceased had not bought poison at their shops.—At Swansea Assizes, on November 24, Griffith Thomas, who took poison in a police cell in company with a woman who had been allowed to visit him (*C. & D.*, September 18, p. 51), was sentenced to nine months' imprisonment for attempted suicide.

Irish News.

Belfast.

Holmes & Co., chemists and druggists, Newtownards Road, Belfast, have added a fruit department to their business.

At the Children's Court, last week, two boys, named Charles Delaney and John McGrath, were charged with the theft of goods value 20s. from the premises of Shaw & Jamison, wholesale druggists, Town Hall Street, on November 12. The magistrates placed Delaney on probation, and remanded McGrath preparatory to sending him to a reformatory.

The "Belfast Telegraph" of November 20 had an editorial note stating: "We observe that the Pharmaceutical Society have decided to press for legislation to provide that the functions of prescribing and dispensing shall be separate. This matter was raised in the course of the recent Greenwood poisoning trial. If hard-and-fast legislation were laid down that a doctor must not compound there would obviously be hardship, especially in small towns which do not boast a chemist's shop. A *via media* that should satisfy both sides is that a written prescription of the medicine supplied by the doctor should be sent to the patient." "Virex," writing in the same paper on this subject, says, "Your readers should get busy and impress the Ministry of Health and local members with the necessity of removing the grave blot from our medical service at once. Further, has a medical man any training or experience in the compounding or manufacturing of medicines?"

Scottish News.

Brevities.

Mr. George Alexander, chemist and druggist, has been appointed town clerk of Alford, Aberdeenshire.

Mr. W. Meldrum, chemist and druggist, Rothesay, has been re-elected secretary of the Rothesay Merchants' Association.

Mr. Malcolm Macfarlane, chemist and druggist, Forfar, has been appointed to supply the medicines required by the local poorhouse for the year 1921.

The Shetland Exploration Syndicate have opened copper mines at Sandhodge. Analysis of the deposits is stated to have yielded 12 per cent. to 15 per cent. of metal.

Some Scottish medicos cultivate the Sherlock Holmes touch. Said one, speaking of the local chemist, "Oh, yes! I know him. His assistant has beautifully brilliantined hair."

Complaints are being made concerning the granting of licences for the sale of agricultural and horticultural poisons. The decisions of the local authorities frequently reduce the law to a farce.

"It would be difficult to define the most useful section of the *C. & D.*, it is all so useful," writes a correspondent. "I think your compilation of British and Continental Trade Reports is a thing to marvel at."

Edinburgh.

A young lady who asks for change for a pound, contrives to keep the note, giving instead a folded piece of paper, is the subject of a police warning.

Many a child is continually swallowing worm-powders, its mother's sole reason being that the child is irritable. One local chemist has barred the sale of such powders for infants two to three weeks old.

The latest topic of conversation with customers is their blood-pressure. A lady, with an air of melancholy, told her chemist recently that her pressure was 212. The pharmacist gravely inclined his head.

Raimes, Clark & Co., Ltd., held an employés' dance in the Victoria Halls on November 17. About eighty couples were present, and an enjoyable evening was spent. Messrs. G. Stuart and G. Denholm acted as M.C.s.

One of the speakers at a prohibition meeting made a reference to the effect of a tiny drop of whisky upon a common fly. "If word gets roond," interrupted one of the audience, "that ye're trying that experiment again, the air in yer hoose 'll be black wi' flies."

"Sixpence-worth of chlorodyne, please," said a visitor to a local pharmacy the other day. "You know the proper dose to give?" inquired the chemist. "Oh, yes, I've given it often," was the reply. Further questions elicited the fact that a "few drops" were required for a baby six months old.

Sir Alfred Ewing, K.C.B., Vice-President of the Royal Society of Edinburgh, occupied the chair at a meeting of the society in George Street on November 22. Papers were read on "Fechner's Law and the Self-Luminosity of the Eye," by Professor W. Peddie, D.Sc., and "Aether and the Quantum Theory," by Dr. H. Stanley Allen, M.A.

Speaking at Edinburgh to the members of the local Health Association, on November 17, Dr. J. Haddon, of Hawick, stated that all foods taken in excess are poisons, and no progress in the treatment of disease would be made until doctors studied in their own persons the physiological action of common foods and beverages. After that food would become physic, and physic would be thrown to the dogs.

Dr. W. Hope Fowler, F.C.S., chief medical electrician at the Royal Infirmary, lectured, on November 19, to the local Electrical Society on the subject of "Medical Electricity." Dr. Fowler, who is one of the pioneers in radiography and other applications of electricity to diagnosis and healing, emphasised the need for research, and gave evidence that British medical electricians were more than keeping pace with scientists of other countries.

Glasgow.

Glasgow Pharmacy football team occupy the sixth position in the Half-holiday league.

Mr. David Perry, of Perry & Hope, Ltd., manufacturing chemists, Nitshill, is shortly leaving for a tour through New Zealand.

The "Poly" is advertising the presence of a London beauty specialist, who is to demonstrate on the care of the skin in the establishment.

French News.

(From the "C. & D." Paris Correspondent.)

M. Pasiureau has been appointed to the Chair of Chemical Pharmacy at the Nancy Faculty of Pharmacy.

Sir Robert Philip represented Great Britain at the recent International Anti-Tuberculosis Conference at Paris.

Anti-tetanus Serum.—The Institut Pasteur increased its production of anti-tetanus serum from 600,000 units in 1915 to one million in 1916 and 1,400,000 in 1917.

M. L. Bottée, who is designing the Sir William Ramsay Chemistry Medal for the University of London, was recently commissioned by the French Government to execute the medal presented to President Wilson, which figured in last summer's Salon at Paris.

M. D. Raquet, pharmacist, Lille, criticises the aqueous maceration process indicated by the French Codex for the dosage of allyl isothiocyanate in black mustard flour, and concludes that alcoholic digestion would be preferable as being more speedy. In this case the present figure of 0.70 per 100 as the minimum of essential oil might be increased to 0.90.

Professor Bruntz, Dean of the Nancy Faculty of Pharmacy, Professor E. Gérard, of the Mixed Faculty of Medicine and Pharmacy at Lille, and M. Dursent, secretary of the Faculty of Pharmacy at Paris, have been appointed Chevaliers of the Legion of Honour. M. Lafay has been promoted Officer of the Legion.

The Jecker Prize has been divided by the Academy of Sciences between Assistant-Professor Herissey, of the Paris Faculty of Pharmacy, and Professor Gault, of the

Strasbourg Faculty of Sciences. A Monthyon Prize ("Unhealthy Trades") has been conferred on Professor Barthe, of the Bordeaux Mixed Faculty of Medicine and Pharmacy.

Radio-activity.—The hypothesis that radio-activity is a characteristic of the "upper crust" of the earth is confirmed by M. Loisel's paper, read at the Academy of Sciences on November 1. He has found by numerous experiments that the nearer the surface the greater the radio-activity of mineral springs. Rainfall also tends to increase the radio-activity of these springs, more quickly in the case of shallower springs and more slowly when the source is deeper in the earth.

Paris Society of Pharmacy.—At a recent meeting of the Paris Society of Pharmacy, the death was announced of Professor Damberghis, of Athens, corresponding member of the Society. M. Bourquelot read some criticisms for the next edition of the Codex, in humorous vein, by Professor Fleury, of Rennes. M. Bridel read a paper on the preservation of air-dried galenical preparations of gentian. Committees were nominated for the examination of papers sent in competition for the various prizes offered by the Society. M. Radais was elected resident member.

House Pharmacist Appointments.—The list of the successful candidates for the posts of house pharmacist in the Parisian hospitals has now been published. The Hôtel Dieu takes three male internes and three ladies; the Pitié and Charité Hospitals, each five men and one lady; St. Antoine nine internes; Lariboisière five; Laennec seven; St. Louis six; Tenon, Beaujon, Bichat, Broussais, Broca, the Maternité, Bretonneau, and the Hospices of Bicêtre and the Salpêtrière three each, males only; the Enfants-Malades four internes; and a number of smaller hospitals a similar number.

The first Wednesday in October was the latest date for sending in essays in competition for the various prizes offered by the Paris Society of Pharmacy. These are, for 1920, two gold and two silver medals (known as the "Society's" prizes), *plus* four prizes offered by founders, the Dubail (300 frs.), biological chemistry; the Charles Leroy (500 frs.), chemical analysis of a medicinal plant, or medicament of vegetable origin; the Landrin (900 frs.), researches on acids, alkaloids, or glucosides of vegetable origin; and the Pierre Vigier (500 frs.), practical pharmacy, and especially the composition or testing of galenicals.

A Germination Theory.—The effect of the soil towards the end of winter in the germination of seeds has hitherto puzzled scientists. M. Auguste Lumière's note, read by M. Gaston Bonnier to the Academy of Sciences on November 8, submits that winter soil contains toxic products, secreted by the roots of plants or resulting from the transformation of vegetable refuse after the fall of the leaves and the death of annual plants. These prevent the germination of seeds. The heavy rains of late winter wash the toxins away, thus allowing the seeds to germinate. M. Lumière described the experiments which led him to this novel and curious conclusion.

Bringing in Customers.—The practice of attracting customers to a newly established shop by making a trifling present to each purchaser on the day of opening exists in certain trades in France (writes our correspondent), but I had not seen it adopted by a pharmacy until recently. On arrival at Amiens every child in the street seemed to have a coloured balloon, on which the name of a certain well-known "commercial" pharmacy was conspicuously inscribed. This company's establishment in Amiens had been badly damaged by the "Bertha" bombardment of April-August 1918, and had only just been that day reopened. Lady customers, I was told, received flowers.

M. A. Richard discusses, in a pharmaceutical journal, the value of biological methods of testing. Quoting experiments on frogs with strychnine and digitalis, he concludes: "No physiological process proposed, up to the present, gives a proper estimate of the active principle of a galenical. A physiological test, if negative, suffices to demonstrate the inactivity of certain drugs. But a positive physiological test alone is not a sufficient element of appreciation. Other methods of investigation must be used, for it is possible to produce artificial substitutes which cause physiological reactions (on the animal) similar to those obtained by natural products."

The housing problem finds an occasional echo in the advertisements of pharmacies for sale. "A comfortable house" is put forward as an inducement, and one candid advertiser is so convinced of the importance of the domiciliary side of pharmacy that he announces "comfortless lodging (*logement peu confortable*) but very well-placed shop." "Sunday closing" is naturally put forward as an inducement. The would-be buyer of a pharmacy offers "cash down if good value. Essential conditions: a shooting and fishing country, and not in Breton-speaking Brittany." Some rural pharmacies allow a certain amount of liberty; one in the Alps is advertised as a nice little business "suitable for a retired man."

The Dye Industry.—The "Union of Producers and Consumers for the Development of the Dye Industry in France" has published a report, in the course of which it is stated that from July to December 1919 the Union made every effort to supply French consumers with dyes, either by purchases in Germany or by supporting the French factories. From July to December 1919 1,093 tons of dyes was obtained by France from Germany direct, without the aid of middlemen. The efforts of the Union to promote the manufacture of dyes in France have made good progress. New works have been set up, and others modernised. The production of dyes in France rose from 174,724 kilos. in June 1919 to 612,700 kilos. in December 1919.

"The Post of Patron Saint of Pharmacy" (*C. & D.*, August 7, p. 66), writes our correspondent, "may now be vacant, but in the Middle Ages there were several candidates whose respective claims (in France, at least) were apparently about equal. Some of the Guilds of Apothecaries favoured St. Nicolas, others St. Mary Magdalene, not to speak of minor competitors. As a rule, their proofs of suitability for the post were vague enough. St. Mary Magdalene's box of precious ointment is the best established and most familiar. St. Nicolas was supposed to have an "odour of sanctity" after his death. St. Cosmo and St. Damian were often invoked. St. Luke, "the beloved physician," is recognised as the patron saint of medical men.

My Lady Nicotine.—Among those who attributed medicinal virtues to this plant may be mentioned the monk André Thevet, who was one of the first to introduce into France "tobacco, a herb-perfume most salubrious for distilling and consuming the superfluous humours of the brain, which makes hunger and thirst pass away, and of which the Christians established in America have become marvellously fond." It is probable that Catherine de Médicis was the first snuff-taker. It is on record that she "had tobacco reduced to powder" and sniffed it during her attacks of "migraine." One of its early French names was (no doubt consequently) "herbe à la reine"; another was "Medicée." On the other hand, the names of Fourcroy and Cadet de Gassicourt may be added to the long list of those who have written against the "Indian weed."

Chemistry in the Submarine.—To improve the atmospheric conditions in submarines, the system proposed by Professors Dresgez and Balthazard in 1899 (production of oxygen by the action of cold water on peroxide of sodium) was first utilised by the British Admiralty, and by the French Navy at a later date. Mixed peroxide of potassium and sodium enabled a submarine to remain eighteen hours and longer under water. Some serious and inexplicable accidents aboard French submarines in 1916 were examined by MM. Henry and Lasterlin, principal pharmacist-chemists of the French Navy, and Pharmacist-Major Javillier, and found to be due to arseniuretted hydrogen produced by accumulators (storage batteries). Two types of apparatus were designed to absorb these toxic gases—M. Tissot's permanganate model, and MM. G. Bertrand and Javillier's system, employing nitrate of silver.

Colonial and Foreign News.

THE PLANT CULTIVATION DEPARTMENT of the Hungarian Ministry of Agriculture offers a prize of 3,000 crowns for the best design for a practical drying apparatus for plants.

MORE PHARMACIES FOR ROUMANIA.—The Roumanian Government has decided to permit one hundred new pharmacies in the kingdom, thirty of which will be allotted to Bucharest, ten to Jassy, and five each to Braila and Galatz.

TO PREVENT OVERCROWDING in the pharmaceutical profession, the Government has decreed that not more than 100 students of pharmacy shall be admitted to the University of Budapest, and thirty to that of Klausenburg; the number of apprentices will thus be automatically controlled.

POLYGLOT APPRENTICES.—An examination was recently held in Klausenburg at the conclusion of a two-months' course of instruction for pharmaceutical apprentices, at which the candidates were permitted to answer the questions in any one of the following five languages: Hungarian, Roumanian, German, French, or Italian.

THE STUDY OF PHARMACY at the Warsaw University has now no connection with the medical faculty, and a separate pharmaceutical institute has been created, of which Professor Dr. Mazurkiewicz has been appointed the director. Intending students must hold the matriculation certificate.

THE FORMER COURT PHARMACY in Vienna, with its two branches in the Castles of Laxenburg and Schönbrunn, which used to be the property of the crown, have now been taken over by the Austrian Government, and the sign with the designation "Hofapotheke" (Court Pharmacy) has now been replaced by one reading "Staatsapotheke" (State Pharmacy).

KENYA COLONY.—The territory formerly known as British East Africa and Uganda is hereafter to be known as Kenya Colony and Protectorate and Uganda. The postal authorities of the colony request that letters be addressed "Colony of Kenya, Africa, formerly known as British East Africa," until the expiration of the year, when reference to "British East Africa" and "Africa" may be omitted.

SULPHITE SPIRIT IN SWEDEN.—The Swedish Board of Medical Directors have informed the Wine and Spirit Central Department, which controls the production and distribution of alcohol, that the sulphite spirit at present being supplied to the State Pharmacy does not comply with the requirements of the Pharmacopœia. The Board have, consequently, requested the Central Department to reserve for the needs of the pharmacy during the ensuing year the requisite quantity of pure spirit produced from potatoes.

CINNABAR IN CHILE.—The Department of Overseas Trade is advised by the British Consul at Antofagasta that a deposit of cinnabar has been discovered in the Aguas Blancas district, which is situated about 90 kilometres from Antofagasta. Claims have already been taken out to the extent of a square mile, and examinations are being carried out by mining experts. The properties are conveniently situated close to the railway. The lay of the deposit is said to vary considerably, and great secrecy is being maintained as to results shown up to date.

PHARMACY NATIONALISATION IN FINLAND.—A message from Helsingfors announces that a Bill has now been placed before the Finnish Riksdag for the conversion of the pharmacies in Finland into State property. The circumstance is said to have produced great unrest among the chemists' assistants and pharmacists, who have expressed their intention of leaving the business in the event of the Bill being passed into law, and transfer their services to drug-stores and the chemical industry, as they consider that the idea of State pharmacies is impracticable.

GERMAN ALCOHOL.—The German alcohol monopoly board has fixed the following prices for alcohol for the coming year, calculated as pure ethyl alcohol: for the manufacture of spirituous beverages, 4,000 marks for 100 litres; for the preparation of perfumes, essences, and of medicinal products by pharmacists and druggists, 2,200 marks per 100 litres; when supplied to hospitals and public schools or teaching institutions for research purposes, 620 marks for 100 litres. For manufacturing and industrial purposes, as well as for lighting, cleaning, and heating, the price is 700 marks for 100 litres.

THE SWEDISH CHEMICAL INDUSTRY.—The Swedish Kemiska Industri Kontor (Chemical Industry Association), following the example set by the iron, steel, and other associations, has approached the Government asking for a consideration of a provisional increase in the import duties to protect home industries from the competition with foreign products made in countries having depreciated currencies. It is suggested that such an inquiry could be made by the Board of Trade with the assistance of experts, and that the investigation should be extended so that stronger measures than higher import duties may be adopted.

ANTHRAX IN SHAVING-BRUSHES.—As a result of the allegations made that Japanese shaving-brushes are a frequent source of anthrax infection, it is of interest to note the decision of the Brush Manufacturers' Association of Osaka to instal the latest sterilising and disinfecting apparatus. The accuracy of the allegations made has been denied, but the action now taken shows that the manufacturers are alive to the losses threatening an important trade. The brush-making industry in Japan, of which Osaka is the centre, is not only among the oldest of the country's export industries, but is among the best organised.

GOVERNMENT SUBSIDY REFUSED.—According to the Japanese newspaper "Jiji," the Naikoku Seiyaku Kabushiki Kaisha, one of the four companies which were organised under Government guarantee for 8 per cent. dividend for ten years under the Dyestuffs and Drugs Manufacture Encouragement Law, has decided to decline Government aid so as to have freer scope of action. This company is negotiating to amalgamate with the Sankyo Kabushiki Kaisha. Formerly they were chiefly engaged in the manufacture of carbolic acid, but since the collapse of that market they have confined their operations to the production of salicylic acid, etc.

LABOUR TROUBLES IN BADEN.—An announcement has been published by the Badische Dye Works stating that in view of the arbitrary behaviour of the workmen during the last few months, the Workmen's Council itself had resigned. The latest trouble arose from a shift of men employed in the Oppau works refusing to continue work as a wage increase had not been accorded within half an hour. The laying idle of this important section of the works soon led to the remainder of the works having to cease operations, and the directors immediately dismissed the workmen. The majority of the men in the other departments declared themselves in sympathy with the dismissed men, and consequently all the workmen of the Oppau works were dismissed.

CENTRAL LABORATORY IN SWEDEN.—The scheme for the establishment of a central laboratory for pharmaceutical products (*C. & D.*, October 9, p. 69) has been approved by the Government in council, and a further step in the matter has been taken by the purchase, on the part of the Wine and Spirit Central Department, of the assets of the Fargamnes Industri, A. B., for approximately 5,500,000 kr. The laboratory will be under the control of the Board of Medical Directors on behalf of the State, and the Board has been authorised to prepare a scale of prices to be charged by the laboratory. It appears that the scheme of the Wine and Spirit Central Department for the acquisition of the principal drug firms in Sweden so far has not made much progress.

THE Worcestershire Education Committee has decided to give up its experimental garden at Droitwich.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

The Union.

July Drug Imports.—The imports of drugs, chemicals, and apothecaries' wares into the Union of South Africa during July 1920 amounted in value to 146,085*l.*, against 69,508*l.* for July 1919; the seven months' imports (January-July) were valued at 831,661*l.*, against 685,371*l.* for the corresponding period of 1919. During this period the medicinal preparations were valued at 173,787*l.*, against 136,581*l.* in 1919.

Natal.

Durban Chemists' Employees' Association.—The chairman of this newly formed Association is Mr. Gelling, who is also secretary of the local branch of the P.A.T.A. The secretary is Mr. Doyle, of Whysall's, and Mr. W. Coote Field is treasurer. The committee appointed is composed of two qualified chemists, one wholesale worker, and one apprentice. The membership fee is 2*s.* 6*d.* per month for adults, and 1*s.* 3*d.* for persons under twenty-one years of age. In drawing up the rules it was provided that a person to be a member must be a chemist's assistant, wholesale or retail, or employed in a manufacturing chemist's establishment. The word "skilled" was afterwards inserted, but, objection being taken to it, the definition of the word "skilled" was to be brought up for discussion at a subsequent meeting.

Orange Free State.

A factory for the manufacture of chromium compounds has recently been established at Viljoensdrift, in the Orange Free State.

Pharmaceutical Society of the Orange Free State.

A general meeting was held in Vickers' Buildings, Bloemfontein, on October 26. There were present: Mr. Taylor (President), Mr. Weller (secretary and treasurer), and Messrs. Reid, Foster, and Fyfe (members). Mr. Weller's motion regarding the subscription was brought forward, but on the motion of the President was postponed until next meeting owing to the small attendance. A reply to the Society's letter as to the registration of men recently admitted to the British Register of Chemists and Druggists without examination was received from the Transvaal Pharmaceutical Society stating "We cannot see what action can at present be taken. The pharmacy laws of the Union being in such a state of chaos at present renders it very difficult to deal with such matters now." Mr. Reid reported that he had seen Dr. Rindl about the pharmaceutical classes. Dr. Rindl stated that the Government had favourably considered the matter, but owing to the near approach of the end of the term and the Long Vacation following it would be impossible to commence the classes before next March. The secretary was instructed to inform the assistants of the above result. After remarking on the different dates on which the annual general meetings have been held, Mr. Weller proposed that the next annual general meeting be held on the second Tuesday in December. Mr. Reid seconded this motion, and it was postponed until the next meeting for fuller discussion.

Natal Pharmaceutical Society.

The Natal Pharmaceutical Society held a general meeting in the Municipal Buildings, Durban, on September 24. The President, Mr. V. G. Acton, occupied the chair. Arising out of the minutes of the previous meeting, the secretary stated that the reciprocity of examination certificates with the Cape Colony and the Transvaal had been arranged. A letter from the Orange Free State Pharmaceutical Society was read, in which that Society stated that the question had been discussed by it of registering in the O.F.S. Province men with Apothecaries' Hall qualifications, and since registered by the Pharmaceutical Society of Great Britain as chemists and druggists, without further examination. The Orange Free State Act precludes the O.F.S. Society from registering such men. The secretary of the Natal Society stated that, in acknowledging the letter, he had quoted the Natal Act, which specifies that registration is only granted on the basis of examination certificates given by the Board of Examiners in Great Britain. The meeting confirmed the action of the secretary. The President reported that, with the secretary, he had visited the Durban Technical College and interviewed Messrs. Golding and Halm on the subject of the pharmacy classes now established there. Hitherto the subjects taught there have been chemistry, botany, and physics. Next session an evening class is to be started in pharmacy, theoretical and practical. In connection with this, a pharmaceutical laboratory will have to be equipped; and the Society, recognising its duty to help with the furnishing of it, decided that its committee be given power to purchase what is necessary, and at the same time approach all chemists and assistants in Natal with the object of collecting sufficient money to carry out the scheme. The Society headed the list with a subscription of 20*l.* The following were elected members of the Society: Messrs. G. L. Peel and W. Coote Field, Durban; Mr. W. B. Marshall, Maritzburg; and Mr. Finn Coll, Eshowe, Zululand.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Exports to Germany.

During the nine months ending September 30 the exports to Germany of produce and manufactures of the United Kingdom were valued at 15,303,000*l.*, the re-exports of foreign and Colonial merchandise at 20,174,000*l.*

Early Closing Bill.

The Shops (Early Closing) Bill has been in the House of Lords during the week. The first clause, providing for the continuance of the closing order, has been amended by the insertion of a proviso enabling the Secretary of State to suspend the operation of the order during the Christmas season or on any other special occasions.

German Dyes.

Sir R. Horne, President of the Board of Trade, stated in the House of Commons on November 22 that about 550 tons of dyes were delivered in this country by Germany last year in accordance with the reparation terms of the Treaty of Versailles. Up to the end of October the quantity delivered this year has been about 1,050 tons.

Reasonable Profit.

Sir R. Horne in the House of Commons on November 22 said that the Central Committee under the Profiteering Act endeavour so far as possible to keep a watch on the rise and fall of prices, both of raw materials and of manufactured articles, and it is a standing instruction to all investigating committees that the question of replacement value should be taken into consideration. It has been pointed out to local committees, to whom have been delegated the bulk of the Board of Trade's powers under the Profiteering Acts in regard to retail trade, that in considering the reasonableness of a given rate of profit they should take into consideration the cost of replacement, and I understand that this is done. The prices of a number of articles of first necessity (for example, boots and shoes and clothing) are certainly declining, but some delay is to be anticipated before retail prices are reduced in accordance with the decline in wholesale prices.

Psychology in Business.—Lecturing at the London School of Economics on November 18, Mr. Frank Pick, a well-known railway manager, laid down the following axiom: "Men want things cheap, but women want them cheaper."

Legal Reports.

Artificial Lime Juice Case.—At Kingston-on-Thames, on November 22, before Mr. Alfred Higgs and other magistrates, Sidney Jeffery, Market Place, Norbiton, was summoned for selling adulterated lime juice; and Gould & Co., Ltd., Wayford Street, London, S.W., were summoned for aiding and abetting. The principal witness for the prosecution, Mr. E. Hinks, B.Sc., F.I.C., public analyst for Surrey, stated that the mixture in question was not lime juice at all, but contained 1.16 per cent. of phosphoric acid and 0.14 per cent. of salicylic acid. His analysis showed that 1 oz. of the liquid would contain three times the maximum medicinal dose of phosphoric acid. It was stated for the defence that the liquid was made last year, and that the makers were doing their best to withdraw the stocks issued. Jeffery was fined 5*s*.; Messrs. Gould were fined 20*l*., with 10*l*. 10*s*. costs, for aiding and abetting, and 1*l*. for applying a false trade description to the liquid.

Pharmacy Act Cases.—At Old Street Police Court, London, on November 18, E. Saltiel, giving an address in Aldgate, was summoned on four counts for having, on October 7 and October 12, sold certain poisons, he not being a registered pharmaceutical chemist or chemist and druggist within the meaning of the Pharmacy Act, 1868, and for having failed to record the purchases in a book kept for the purpose. The defendant pleaded "Guilty." It was stated for the prosecution that he was a man who went from market to market with a stall, on which he vended perfumes and toilet-articles. Mr. Branch, of the Pharmaceutical Society's staff, purchased the two capsuled and labelled bottles produced in court from the defendant when the latter was in Whitecross Street, E.C., with his stall. There was no information as to where the poisons came from, but the defendant was in possession of morphine, codeine, and other drugs, while the bottles in question contained Easton's syrup and corrosive sublimate. Defendant intimated that he was willing to state where he got the bottles, but was informed that he could tell the police. He was fined 2*l*., with 1*l*. 1*s*. costs, on each of the two summonses for not entering the sales in a book.—In Blackpool County Court, recently, G. Mason, 34 Victoria Street, was ordered to pay a penalty of 5*l*. for falsely describing himself as a pharmaceutical chemist, contrary to the provisions of Section XII. of the Pharmacy Act, 1852.

Chemical Companies' Litigation.—The action brought by the Actiengesellschaft für Anilin Fabrikation (in Berlin) and the Mersey Chemical Works, Ltd. *v.* Levinstein, Ltd., on November 22 came before the Court of Appeal upon the application of the plaintiffs, the Mersey Chemical Works, Ltd., to have their appeal in the action restored to the list for hearing. Sir Arthur Colefax, K.C., in support of the application, said the Mersey Chemical Works, Ltd., is in liquidation. The action was started by the two plaintiff companies before the war—one company being a German company and his clients an English company. The appeal was in the list to be heard in the term before the war broke out, and had stood over generally pending the war. It was an action brought upon one patent for the period of six years prior to the issue of the writ, and as to the first two years of that period the German company was alone interested, but for the four years prior to the issue of the writ the Mersey Chemical Works was alone interested. During the war this company went into compulsory liquidation; the Official Receiver was the liquidator, and he now was prosecuting the appeal in the interests of the shareholders. The German company desired to be dismissed from the appeal upon the ground that they had no further interest in the matter. On the other hand, the Mersey company desired to prosecute the appeal, and therefore asked their lordships to restore it to the list. Their lordships granted the application, but directed by consent that the appeal should not be heard during these sittings.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Leslies (Birmingham), Ltd. (P.C.).—Capital, 1,200*l*. Objects: To take over the business of a chemists' sundriesman carried on by H. L. Perkins at West Bromwich and elsewhere. R.O.: 18-19 Sand Street, Birmingham.

Carma Co., Ltd. (P.C.).—Capital, 500*l*. Objects: To take over from the Carma Co., and turn to account the benefit of certain existing inventions relating to a composition for sealing bottles, and to carry on the business of chemists, druggists, oil and colour men, etc. Solicitor: S. N. Carvalho, 11 St. Helen's Place, London, E.C.

Ophthalmic and Chemists' Supply Co., Ltd. (P.C.).—Capital, 2,000*l*. Objects: To carry on the business indicated by the title. The first directors are: M. Burns, 18 Hornsey Lane Gardens, Highgate, N., pharmacist, and P. L. Lawson, 80 Walm Lane, Willesden, N.W., optician. R.O.: Ulster Chambers, Regent Street, London, W.

Milnes & Lister, Ltd. (P.C.).—Capital, 1,250*l*. Objects: To take over the business of a drug stores carried on by D. Milnes at 1 John Street, Brighouse, as "D. Milnes." The permanent directors are: D. Milnes, 3 John Street, Brighouse, and W. Lister, 18 Alexander Street, Claremount, Halifax. R.O.: 1 John Street, Brighouse.

Linells, Ltd. (P.C.).—Capital, 2,000*l*. Objects: To carry on the business of chemists, drysalters, oil and colour men, etc. The first directors are: H. J. Linell (permanent managing director), 176 Mary Street, Balsall Heath, Birmingham, and J. E. Gascoyne, 11 Woodhurst Road, Moseley, Birmingham. R.O.: 167 Mary Street, Balsall Heath, Birmingham.

E. J. Blaker, Ltd. (P.C.).—Capital, 1,000*l*. Objects: To take over the businesses of chemists and druggists carried on (1) by E. J. Blaker at Electra House, Haslemere, and Huts Corner, Hindhead, and (2) by H. Wilcs and H. Holman at High Street, Haslemere. The first directors are: E. J. Blaker (managing director), Electra House, Haslemere, and W. C. E. Tompkins, Glen View, Longdene Road, Haslemere. R.O.: Electra House, Haslemere.

F. Coates & Co., Ltd. (P.C.).—Capital, 3,000*l*. Objects: To carry on the business of chemists, druggists, and dispensers, analytical chemists, manufacturers of and wholesale and retail dealers in fine, pharmaceutical, photographic, and other chemicals, etc. The first directors are: F. C. Coates (chairman and permanent governing director), The Mount, Private Road, Nottingham, and W. J. Appleby, 99 Harcourt Road, Nottingham. R.O.: 56 Rawson Street, New Basford, Nottingham.

Namrah, Ltd. (P.C.).—Capital, 5,000*l*. Objects: To take over the business of a manufacturer of cartons carried on by H. A. Harman at Shalford, and to carry on the business of chemists and druggists, manufacturers and importers of and dealers in salts, acid, alkali, drugs, etc.; manufacturer of and dealers in paper, cardboard, and cartons of all kinds, etc. The first directors are: H. A. Harman, Ramsdean, Shalford, near Guildford, and W. H. Folwell, "Cairene," Orchard Road, Chalford, near Guildford. R.O.: Namrah Works, Station Road, Shalford, near Guildford.

New Swedish Pharmaceutical Company.—Aktiebolaget Pharmacia and the pharmaceutical department of the Gothenburg firm of Malsten och Bergvall have decided, by the fusion of the two concerns, upon the formation of a new company with a minimum capital of 1,250,000 kr., for the manufacture and sale of pharmaceutical products.

The "Oesterreichische Chemische Industrie Aktiengesellschaft" has been published at Vienna, under Government auspices, with a share capital of six million kronen, to take over the former explosive plants of the Ordnance Works, Bluman, with a view to the manufacture of organic intermediates for the dye and pharmaceutical industries, as well as organic finished products.

General Medical Council.

The General Medical Council met on November 23, in their Parliamentary Chamber in Hallam Street, London, W. 1, for the winter session, which promises to centre even more than usual round the curriculum. The President was hopeful that the three penal cases would all be disposed of on Wednesday, and that two days' consideration of the educational and other reports would bring the session to an end on Friday. The only change in the membership is the accession of Dr. Denis J. Coffey, President of University College, Dublin, introduced by Dr. Magennis, and who succeeds Sir Bertram Windle. The important and valuable legal mainstay of the Council, Sir Archibald Bodkin, will be much missed, Sir Archibald having been promoted to the office of Director of Public Prosecutions. "Since he took up duty in 1909 on the death of Mr. Sydney Lushington," said the President in his address, "he has won the trust and esteem of the Council by his wise advice in matters of law and procedure, and by his unfailing courtesy." Mr. E. W. Hansell, counsel to the Board of Trade, and Recorder of Maidstone, formerly associated with Mr. Muir Mackenzie, is for the time filling Sir Archibald's place. Another promotion is the elevation of Sir Clifford Allbutt to the Privy Council. The President also alluded to the death, at an advanced age, of Dr. Wm. Bruce, "the first direct representative of Scotland, and whose professional life was co-extensive with that of the Council, for he graduated in 1858." It is some twenty or thirty years since Dr. Bruce was an active member of the Council and was chairman of the Public Health Committee.

The Dangerous Drugs Bill,

said the President, in his address, had passed into law. "Under its provisions regulations governing in detail the manufacture, sale, prescribing, and dispensing of opium, cocaine, and other potent drugs have to be framed by the Government. It is probable that the Pharmacopœia Committee will be consulted on the form of such of these regulations as come within its province. We have not yet received the report of the Departmental Committee on the official control of standards, in respect of serums, vaccines, and certain galenicals included, or capable of inclusion, in the Pharmacopœia. I learn, however, that the report is nearly ready. Its recommendations will be considered by the Pharmacopœia Committee and communicated to you at the proper time."

Dental Matters.

The draft of the Bill for the amendment of the Dentists Act was, the President continued, in a forward state of preparation, and it was intended to bring the measure before Parliament during the present session. In the matter of dental legislation, the President went on to say, "the Overseas Dominions are still in advance of the Mother Country. New laws have been enacted in Ontario, Prince Edward Island, and in the Yukon Territory, which contain drastic provisions against the practice of dentistry or dental surgery by any but qualified and registered persons. Prince Edward Island further institutes a statutory 'Dental Students Register' for the enrolment of those who have passed the prescribed preliminary or matriculation examination, and have entered on professional study at a University, dental college, or other authorised institution. It has been said that the Legislatures of the Dominions are 'the experiment-stations of the Empire.' Our older and slower-moving Parliament would do well to observe and to profit by the 'traffics and discoveries' in dental law-making that are wrought out in the laboratories overseas." The Royal Faculty of Glasgow propose to institute a higher diploma in dentistry on the model of that lately established by the Royal College of Surgeons of Edinburgh.

Medical Education.

The interim reports, the President went on to say, of the Medical Consultative Council of the English and Scottish Ministries of Health make proposals for the better organisation of medical practice in Great Britain, and for its more complete correlation with publicly-provided services, preventive and curative. The aim is to render the service of medicine more effectual to the well-being of the nation. Certain changes, of emphasis rather than of substance, would be called for in professional training, and the Education Committee has prepared for the Council's discussion the whole subject of curriculum revision—a subject which would probably occupy several sessions.

The Council sat *in camera* on Tuesday afternoon, restoring to the Register the names of Alexander Christie McArthur and John Papu Nicolas.

Penal Cases.

The first penal case taken occupied the Council some hours. Nariman Hormusji Clubwala, registered as of Masazon Hospital, Bombay, was summoned for having last May given a certificate to an Australian soldier stating that he had been under treatment for the last five months suffering from epilepsy and war neurosis, and was not in a fit state to attend to his duties; whereas in fact the doctor had only seen the man once and had no previous knowledge or information as to his case. Moreover Dr. Clubwala had signed the certificate in the name of J. Kanga, M.B., B.S., for whom he was acting as *locum tenens*. The complainants were the Australian Imperial Force, represented by Major E. W. E. Morris and Captain P. Fennelly. Messrs. Clubwala and Kanga both attended, the former accompanied by Mr. Holloway Pike, his solicitor. Captain Fennelly, opening the case, said that the facts were apparently very simple and might not appear to involve important consequences. One of their soldiers, Albert M. Dent, had deserted from the Australian Imperial Force; they could not trace his whereabouts till he turned up last May with the certificate referred to, which went further than an ordinary certificate, justifying an absentee, and it became a serious question. The Australian Government had transported 500,000 men to the scene of warfare with the obligation to return them to Australia. Their experience in England with officials had been most favourable, help had been generously given. This was the only instance of the kind. Major Morris had examined the man and found that, with the exception of an injury to the hand and slight affection of the knee, there was no disability whatever. He called at the address in Fulham Road given in the Register as the residence of Dr. Kanga, and found there Dr. Clubwala acting as *locum*, the former being in South America. Dr. Clubwala said that he had based the certificate on statements made to him by Dr. Kanga, who had given him authority to sign certificates in his name. He could not produce any case-book or any records of Dr. Kanga's visits, but he had seen and examined Dent once himself. Dr. Clubwala tendered himself as a witness, and was examined and cross-examined. He produced his own record of Dent's case. Dr. Kanga was also examined. It was urged in defence that Dr. Clubwala was young, and that the certificate was given in good faith as the result of his own investigation, and was only partly misleading. After consideration *in camera*, strangers were re-admitted, and the President announced that Mr. Clubwala's name would be erased from the Medical Register.

Preserving Lemon Oil.—The addition of 5 per cent. of a fixed oil, preferably olive oil, to essential oils of lemon and orange has been found to preserve them indefinitely from the development of turpentine.

Argentina Gum Acacia?—U.S. Commerce Reports (No. 246) announce that "samples of gum arabic collected in the forests of Argentina have been forwarded by Trade Commissioner Smith and are on file in the Bureau of Foreign and Domestic Commerce or any of the district offices. Quotations from American importers who would be interested in purchasing this product are desired. It is stated that 10 tons of the gum could be prepared for shipment within a month after receipt of the order." [The gum is probably a spurious variety of acacia.—Editor.]

Pharmaceutical Society of Great Britain.

North British Branch.

The first evening meeting of the session was held at 36 York Place, Edinburgh, on November 19, Mr. James Jack, F.C.S., F.L.S., J.P., in the chair. Before proceeding with the ordinary business, the Chairman made a sympathetic reference to the tragic death of Mr. W. B. Cowie and to the death of Mr. Andrew Naysmith. Both had been members of the Executive of the North British Branch. Expressions of sympathy are to be sent to the widows.

In introducing the speaker of the evening, the chairman remarked that Professor Barger had been for many years closely identified with the chemical and pharmacological examination of drugs, and his work was closely identified with the practice of pharmacy. When the extended field of modern chemical science required specialisation in the University of Edinburgh in the direction of chemistry related to medicine, Professor Barger was naturally selected as the man well fitted to take up this department. He was already well known to them by name, and they gave him a very cordial welcome to the opening meeting of the Society.

Professor Barger, in acknowledging the remarks of the Chairman, said he esteemed it an honour and a privilege to have been asked to open the session and to address Scottish pharmacists on a subject in which he believed they would be interested, and which had engaged a considerable amount of his own attention. He then proceeded to deliver the inaugural sessional address, his subject being

"Ergot: Its History and Chemistry."

The first part of the paper dealt exhaustively and in an interesting manner with the early accounts of ergot. The earliest reference was found in Lonicer's "Kreuterbuch," 1582, where the occurrence of ergot on rye and its use by women in bringing on labour pains are mentioned.

In regard to the botanical history of ergot, it was for a long time regarded merely as a malformation of the rye, due to luxuriance of sap or to insect bite. Its fungoid nature was first recognised by Baron Otto von Münchhausen in a work on "Rural Economy," dated 1764. He placed it between the genera *Clavaria* and *Lycoperdon*. Decandolle definitely classified it as a fungus under the name of *Sclerotium clavus*, and Tulasne worked out its life history; he named it *Claviceps purpurea*.

Chemical investigations of ergot go back to the eighteenth century, but the first of any importance was due to Vauquelin ("Ann. Chim. Phys.," 1816), and was doubtless suggested by the introduction of ergot into scientific medicine, as was a paper by A. Buchner "Das Mutterkorn, ein neues Arzneimittel. Nach dem Englischen frei bearbeitet vom Herausgeber ("Buchner's Repertorium für die Pharmacie," 1817). The English paper, on which the latter article is based, is found in the "Journal of the Royal Institution," 1817. As a curiosity it may be mentioned that F. X. Pettenkofer ("Repertorium für Pharmacie," 1818) describes in ergot cubical crystals which he considered to be morphine phosphate. William Mackenzie, Andersonian professor of anatomy and surgery at Glasgow, suggested the presence in ergot of an alkaloid-like strychnine, on account of the resemblance of convulsive ergotism to nux vomica poisoning ("London Med. and Phys. Journ.," 1826). The further chemical history of ergot need not be dealt with here; reference may be made to a recent paper by A. Tschirch ("Schweiz Apotheker-Zeitung," 1917), and one by Gordon Sharp ("Pharm. J.," 1910). The former paper contains a number of errors; in particular the statement that histamine and tyramine are formed from ergotinine and ergotoxine is wholly incorrect; nor is the latter paper free from error. An account of the earlier chemical investigations of ergot is also found in a paper by G. Barger and H. H. Dale ("Biochem. Journ.," 1907).

Our present knowledge of the chemistry of ergot may be briefly summarised as follows:

The chief active principles are: (*a*) The amorphous alkaloid ergotoxine, $C_{35}H_{41}O_6 \times N_5$, yielding crystalline salts. It is identical with hydroergotinine of Kraft and with Tanret's amorphous ergotinine. Its physiological properties have been described by Dale, and he produced gangrene with it. (*b*) Histamine = – iminazolylethylamine = ergamine $C_5H_9N_3$. Its presence as such in ergot has been demonstrated by physiological means within half an hour of collecting it from the rye, but the amount in liquid extract is probably increased by such processes as prolonged extraction and dialysis. It is a powerful uterine stimulant. (*c*) Tyramine = *p*-hydroxyphenylethylamine, $C_8H_{11}ON$. It is the chief blood-pressure raising principle of the liquid extract. (*d*) Acetylcholine, $C_7H_{17}O_3N$, occurs in ergot and some ergot extracts in varying and mostly negligible amounts. It lowers the blood-pressure, and is very readily hydrolysed by sodium hydroxide. Physiologically inert substances so far found only in ergot are: The crystalline alkaloid ergotinine, $C_{35}H_{39}O_5N_5$, of Tanret. It is the anhydride of ergotoxine and the two alkaloids are mutually interconvertible. Ergothionine, $C_9H_{15}O_2N_3S,2H_2O$, isolated by Tanret; for constitution see Barger and Ewins (Trans. Chemical Society, 1911, 99, 2336). Secale aminosulphonic acid, $(C_{15}H_{26}O_{15}(NH_2)SO_3H)$, crystalline, water soluble. Secalonic acid, $C_{14}H_{14}O_6$, m.p. 244°, a crystalline yellow colouring matter, present to the extent of 2 per cent. Another yellow colouring matter, $C_{15}H_{14}O_7.H_2O$, m.p. 350°. Sclererythrin is the characteristic red colouring matter. Claviceepsin, $C_{18}H_{34}O_{16}$, is, according to Marino-Zucco and Pasquero, a glucoside, hydrolysed to two molecules of glucose and one of mannitol. Ergosterol, $C_{27}H_{42}O.H_2O$, m.p. 165°, and fungisterol, $C_{25}H_{40}O,H_2O$, m.p. 144°, are two sterols separated by Tanret. The second at least seems to occur also in other fungi. Besides this, ergot contains a large number of substances of general physiological importance also found elsewhere. The fat of ergot (mostly 30-33 per cent. of its weight) has been examined by Rathje. Various amino-acids are present in the free state—*e.g.*, lucine, isolucine, and valine, probably aspartic acid. Several amines derived from amino-acids by decarboxylation occur; the most active of these, histamine and tyramine, have already been mentioned. Much less active are putrescine and cadaverine, isoamylamine, and agmatine. Choline in ergot is the source of trimethylamine. Betaine and uracil were found by Rielander, the former also by Kraft. Vernine, $C_{16}H_{20}O_8N_8,3H_2O$, occurs also in leguminous seedlings. There are further present lactic acid, mannitol, and the disaccharide trehalose.

Dr. W. G. Smith, of the East of Scotland College of Agriculture, exhibited specimens of the ergot fungus on rye and on *elymus arenarius*, *lolium italicum*, *holcus latanus*, and species of *psamma* and *nardus*. He also exhibited specimens of ergot in the fructifying condition. These were readily obtained by placing sound specimens of ergot on moist soil in an ordinary flower-pot half-filled with earth, the upper portion being packed with hay and placed in the soil in a garden. In a short time excellent fruiting specimens of ergot could be obtained.

Professor Cushney, in moving a vote of thanks to Professor Barger, said he was not sure that he would agree as to all the epidemics referred to being actually traceable to ergot. Professor Barger and Mr. Dale had finally dissipated what had really been something of a scandal in connection with the chemistry of ergot.

Dr. Watt, in seconding the vote of thanks, said it was his privilege to be present at a meeting of the Chemical Society in London at which Professor Barger read what was probably his first communication to that Society on the chemistry of ergot, and he esteemed it a great privilege to hear Professor Barger again on a subject in which, since that date, he had done very important work.

The vote of thanks having been carried with acclamation, Professor Barger replied, and in doing so proposed a vote of thanks to Dr. W. G. Smith, which was cordially awarded.

Pharmacy in Soviet Russia.

We are indebted to the courtesy of a Petrograd pharmacist, who recently succeeded in escaping into one of the new border States, for the following notes on the present condition of pharmacy, and of the pharmaceutical industry, under Soviet rule.

With regard to the pharmaceutical industry, of the twenty chemical and pharmaceutical firms in Moscow which supply the requirements of the profession, nominally nine are working, but in actual fact only two or three really produce any preparations whatever. Each factory, in common with all industrial undertakings in Soviet Russia, is under the direction of a commissary, who is not required to possess any practical knowledge of the working of the establishment of which he is in charge. His functions consist in providing for the proper maintenance of the working, and for this purpose he is endowed with almost autocratic powers in dealing with the workmen. If a workman arrives late he is compelled to make good the lost time threefold; if he neglects to come to work for two consecutive days, he is deprived of his food card. To disobey the commissary's orders entails imprisonment in a concentration camp.

Pharmaceutical Chemical Factories.

Nominally the workmen have an eight hours' day, but at present they are compelled to work overtime four hours daily; therefore they have to put in twelve hours' work. All factories in work belonging to this category—chemical and pharmaceutical works—are placed under the direction of a central board, which allocates to each factory the requisite raw materials, and also undertakes the distribution of the manufactured products. The few factories actually working have to contend with the most adverse conditions, as the necessary raw materials are not available. New supplies are not forthcoming, and what is available consists of stocks confiscated either from the factory itself or from other establishments. To obtain supplies of raw materials entails endless correspondence with the competent authorities, and it usually takes months before the necessary raw material is actually delivered, as red-tape is rampant in its most pronounced form. In Petrograd only three factories of pharmaceutical products are working, and these only work a few days a week. The number of products manufactured is extremely limited. Among the preparations which are quite unobtainable figure all antipyretics and all alkaloids, and the want of cocaine and morphine is acutely felt, as well as all preparations of bromine and iodine, castor oil, valerian, etc. Such substances as sugar, syrup, and starch, required in the preparation of galenicals, are also unobtainable.

It has been possible, however, to manufacture one product, which is probably in greater demand in Russia than in any other country, and that is salvarsan. This is due to the fact that the Soviet has secured the services of a chemist who has thoroughly mastered the difficulties attending its production. Consequently he enjoys a privileged position, and is more honoured than any patron saint in the Czar's time. He has a staff of eighty assistants; nevertheless it has not been possible to produce more than about 8 kilos. of salvarsan annually, and this amount is insignificant in comparison with the enormous demand, particularly since salvarsan has been used successfully in the treatment of recurrent typhoid.

Another feature of Soviet administration is the manufacture of unnecessary products, due to the fact that in order to keep the factories going they are required to deal with any available raw material which may be allotted to them. A striking instance is the enormous output of extract of buckthorn (ext. frangulæ), although in view of the extremely restricted diet on which the Russian has to exist constipation is an uncommon complaint. The same applies to santonin, which is scarcely in demand, since the Soviet Government succeeded in exterminating worms by the simple procedure of enforced hunger. On the other hand, for a time it was possible to manufacture a number of really useful preparations, including iron albuminate (which is extensively used in Russia); but now, owing to the want of the necessary raw materials, even these can no longer be produced.

The Condition of the Pharmacies.

All pharmacies were nationalised in 1918, and the owners were either compelled to accept inferior positions in other pharmacies, or were punished for the fact that they were "bourgeois." The management of the pharmacies resembles that of the factories, and usually each business is in charge of an administrator, who is generally a former assistant, while the *personnel* is mostly composed of women. The pharmacies are under the control of a legion of inspectors, whose duties consist in preventing thefts by the employees, since the circumstances practically are an inducement to thieving and speculation. The salary of a pharmacist amounts to 5,000 Soviet roubles monthly, in addition to an allowance of 1 lb. of bread per diem. However, in view of the enormous cost of foodstuffs—1 lb. of butter costs 5,000 roubles—it is evident that even the most Draconic measures cannot put a stop to speculation in Soviet Russia.

In Petrograd the majority of pharmacies has been closed, and their stocks have been allotted to the few which are still open. The large pharmacies, such as that of Kresling in Petrograd and Ferrein in Moscow, which formerly had a very high reputation, still enjoy the confidence of the Soviet commissaries, particularly as they are credited with holding large stocks from the pre-revolutionary period.

Formerly the curriculum of a pharmacist in Russia extended over eight years of study; at present it is sufficient to undergo six weeks' training in order to become a full-fledged pharmacist. However, candidates for this training have to submit to a very strict investigation before a limited number is given permission to attend. The principal preliminary knowledge required, which is absolutely necessary, is the ability to read and write (*sic*), and preference is given to those persons who were formerly engaged in pharmacies for such duties as charing, washing bottles, etc. But the knowledge possessed by those who have undergone this training stands in direct proportion to the opportunities of applying the same in practice, for what is the good of knowing how to handle a precision balance when there is none?—and the same applies to the use of small weights under one gram, which are now conspicuous by their absence. It is no wonder, therefore, that mistakes involving the substitution of hydrargyrum bichloridum for hydrargyrum chloridum, with fatal results, are of very frequent occurrence, to quote but one obvious instance.

Patients are required to bring their own bottles when fetching medicine. In order to reduce the clerical work of the pharmaceutical *personnel*, but more likely owing to lack of confidence in their ability to read, medical practitioners are obliged to write out their prescriptions in duplicate; one copy is simply gummed on the bottle, and the other retained by the pharmacist. No indication whether the medicine is intended for internal or external use is added, and this omission, coupled with the peculiar course of pharmaceutical training, has been responsible for numerous cases of poisoning. Sterilisation is no longer carried out, and the use of distilled water is practically unknown, as it cannot be prepared owing to the shortage of fuel. In consequence of the scarcity of paper, powders are dispensed in used paper. There are no counter sales, since no remedy whatever may be supplied without a prescription.

The Medical Profession.

Those medical practitioners who enjoyed their training under the old *régime* are compelled to attend in the hospitals for three to four hours daily, and they are placed under the supervision of Communist half-trained surgeons. The new medical curriculum requires only three years' training. A Communist medical association is in existence, which includes all Communist nurses, midwives, field surgeons, and ambulance *personnel*; at first the legitimate medical practitioners were forbidden to join it, but now

they have been ordered to do so, a step they refuse to comply with.

Hospital patients are given soup and half a pound of bread daily; sugar is supplied in daily rations of 20 grams, salt is very scarce, and there is no fat of any kind available. There are twenty-four categories of food cards. Among the first category are included all the Communist commissaries, and also the professors, as recently professionally trained men are receiving greater consideration, since the Soviet has recognised the necessity of securing their services and co-operation. Then follow persons who have had a medical training, and the workmen engaged in the manufacture of war material, who are required to work fifteen or even sixteen hours a day. These are followed by the manual labourers, then by the dwellers in towns, who are divided into three categories: Communist officials, lower officials, and last of all the "bourgeois," who receive only 50 grams of bread per day. In consequence of the failure of the harvest, all free trading has been entirely prohibited since last August.

These statements are fully borne out by the reports published by German, Austrian, and Hungarian prisoners of war who have succeeded in reaching their homes, many of whom had ample occasion to observe pharmaceutical and medical conditions in Soviet Russia, which all are agreed in describing as "simply incredible." In Czecho-Slovakia one Communist newspaper attempted recently to defend the Soviet methods as far as they affected the pharmaceutical profession, but its rosy picture of the Communist pharmacy was soon destroyed by the indignant expressions of opinion by those cognisant of actual conditions. As a routine, it takes two days in some pharmacies before a prescription is made up; and very often a preparation is "out of stock," if to fetch it entails descending into the cellar by the Communist pharmacist.

Dentists Act Amendment Bill.

The following letter has been sent to members of the House of Commons by Mr. J. W. Roberts (President) and Mr. J. Y. Fairweather (treasurer) on behalf of the Chemists' Dental Society:

The Minister of Health has recently announced to a deputation of your colleagues that this Bill will be introduced in the present session of Parliament on the lines of the Departmental Committee's Report on the Dentists Act, 1878, in which chemists carrying on the practice of dentistry are specially mentioned in paragraph 206 of the report, which reads as follows:

We have received statements and heard witnesses from Societies representing pharmaceutical chemists and chemists and druggists who practise dentistry. The Committee do not think that it is altogether desirable for one person to practise two professions unless there is some special public advantage. It has long been the custom of many pharmacists to practise dentistry, and frequently it forms a small portion of their business, being in the nature of a "side line." Chemists who are at the present time unregistered practitioners of dentistry should, we think, be dealt with somewhat exceptionally, and those chemists who may be admitted to the Dental Register should within a period of five years from registration elect which profession they intend to follow, and give an undertaking to the General Medical Council that they will not concurrently practise both the profession of dentist and pharmacist. Any failure to keep this undertaking should involve risk of removal from the Dental Register. We have recommended that for an unregistered dental practitioner to be admitted to the Dental Register he should satisfy a Committee that dentistry was his main professional occupation. As regards unregistered persons practising dentistry whose names are included either in the Register of Pharmaceutical Chemists or in the Register of Chemists and Druggists, published by the Pharmaceutical Society of Great Britain, we think, in the special circumstances of their case, it would be sufficient that an applicant should satisfy the Committee that his practice was a substantial one, and included all usual dental operations. We think that pharmacists would be suitable persons to undertake, in districts where no registered dentist is available, the strictly limited dental practice by unregistered persons which we have suggested in the previous section.

The Chemists' Dental Society—every member of which is on the Register of Pharmaceutical Chemists or Chemists and Druggists of the Pharmaceutical Society of Great Britain—take exception to certain particulars of this paragraph.

The members of the Chemists' Dental Society strongly object to the threat that the one or the other of their pharmaceutical or dental practices should be prohibited after a lapse of five years.

As a simple act of justice to pharmacists practising dentistry, the five years' limit, as mentioned under Section 17, paragraph 206, should not appear in the forthcoming Dental Bill. If it should, and becomes a part of an Act, a piece of class legislation will result. It is hard to say why it should ever have been recommended in the Departmental Committee's report, and it savours somewhat of the nature of a conspiracy against pharmists because they are pharmacists, as no other class interested has been specially singled out for special and, what we think, penalising conditions, before and after proposed registration. In the Dentists Act of 1878 pharmacy was specially mentioned, and was thought worthy to be classed on an equality with the practice of medicine and surgery, and Section VI. of that Act provided that any person who at the passing of the Act was *bona fide* engaged in the practice of dentistry or dental surgery, either separately or in conjunction with the practice of medicine, surgery, or *pharmacy*, should be entitled to be registered—a precedent which surely could well be followed in the forthcoming Dental Bill. Paragraph No. 206, Section 17, of the Dentists Act Committee's report has always appeared to us rather stingy and quite unnecessary. We have no knowledge as to why this attitude is shown to us in this part of the report, and no argument or reason has been given for it in order that we might be able to meet it. The members of the Chemists' Dental Society have a very good record, and carry on the practice of dentistry in an ethical professional way, and so far as we are aware, no charge has been made in public that certain malpractices usually connected with dental companies exist among its ranks, and yet we are specially singled out for these penalising conditions. Under the Dentists Act, 1878, it has been estimated that there were 4,006 persons' names placed on the Register, and of that number 2,000 names of chemists were registered without any suggestion of penalisation whatever. We hold there should, in common justice, be none now, and that pharmacists who have been in practice in dentistry for the stipulated time shall be allowed for life to be free to practise concurrently pharmacy and dentistry, if they so desire. There is an allusion in the report to persons (Section 4, p. 15, paragraph 45 (*b*), replies) who would presumably be entitled to go on a new Register, who are educated so indifferently in dental matters that they "could not educate their patients in the care of their teeth, and their ignorance of serious evils that follow toxic infection from teeth and gums." No charge of a like nature could be substantiated against a member of the C.D.S., we make bold to say, and yet we have this penalty of five years' limit facing us, while the class of the unregistered described in the report have no such penalty attached to them. Imagine, too, the humiliation a self-respecting pharmacist would be reduced to in having to give up pharmacy or dentistry after practising both for, say, fifteen, twenty, or thirty years, and building up a reputable practice to the satisfaction of the people around him—and at a distance. It is difficult to see where there would be any public disadvantage to allow us to carry on as hitherto under the forthcoming Dentists Bill, and we do say there may be a considerable public advantage. There is certainly no public disadvantage known or cognisant to us. If the time limit was included in the report by the influence of interested people the reason is obvious; but there is no public disadvantage on that score, and surely we are not expected to prove that there is "some special public advantage" in a pharmacist conjointly carrying on the two professions if there be no special public disadvantage.

This, in brief, is our case, which we commend to your impartial consideration and ask your support and interest to safeguard our rights, if encroached upon, in the Dentists Act Amendment Bill.

Facts and Fallacies about Trade-marks.

Mr. Benjamin T. King, A.I.M.E., patent agent, Queen Victoria Street, London, E.C., addressing the members of the Publicity Club of London recently on the subject of trade-marks, said an inseparable link exists between publicity (in its connection with merchandise) and trade-marks. A trade-mark particularises a certain article or class of article or manufacture. In placing his goods before the public a manufacturer's primary and fundamental object is to focus attention on his goods and his alone. Thus, to render unnecessary his shouting from the housetops, "Buy my silk stockings," he applies an index to identify his particular silk stockings. The *raison d'être* of a trade-mark is to distinguish, to differentiate, to identify, and to monopolise. In regard to registration of trade-marks, a professional trade-mark agent, when talking about trade-marks, would naturally drift in the direction of registrable trade-marks. There is a high dividing barrier between plain and unadorned trade-marks and those capable of registration at the Government Patent Office, but in many instances that is not an insuperable barrier. The recent Trade-marks Act may be regarded as a ladder for scaling that obstacle. The official definition of a registrable trade-mark as described in the Trade-marks Act is as follows:

A registrable trade-mark must contain or consist of at least one of the following essential particulars: (1) The name of a company, individual, or firm represented in a special or particular manner. (2) The signature of the applicant for registration or some predecessor in his business. (3) An invented word or invented words. (4) A word or words having no direct reference to the character or quality of the goods, and not being according to its ordinary signification a geographical name or a surname. (5) Any other distinctive mark shall only be registrable upon evidence of distinctiveness.

Continuing, Mr. King said a publicity campaign directed to advertise the manufactures or wares of a particular person or firm is best carried out when based on a trade-mark which has been registered under expert advice. Many difficulties and complications beset the selection, registration, and use of a trade-mark even after registration. The average man is quite at sea when dealing with problems affecting the adoption and registration of marks, and their use after registration. Trade-marks were first registered in Britain under the Act of 1875, and for many years were included in the same Act of Parliament as that which dealt with patents. There is now a separate and distinct Act dealing with trade-marks. The Trade-marks Act, 1919, has enlarged the scope of registration by permitting words, which ordinarily would have been refused, being entered on the Register as "B" marks, the provision being that these marks must have been in use for not less than two years, and evidence must be produced to prove their distinctiveness by "user." In selecting marks for adoption, the line of thought should be directed to conceive a trade-mark that can not only be registered, but that is one which will appeal to the public. Modern trade-marks, to be successful, must be on lines different from those which were originally followed. In the old days a manufacturer would impress some distinctive design on his goods, such as a beehive or an owl, and his articles would be known as "Beehive" or "Owl" mark or brand. Many manufacturers are content to advertise their surname or trading name, and in such instances long usage and large advertising have caused such names to become established proprietary trade-marks, such as "Pears' Soap," "Mellin's Food," "Beecham's Pills," etc. The modern tendency, however, is to launch out with an advertising campaign by adopting either an invented word, or alternatively a word that has no direct reference to the nature or character of the goods advertised. Geographical names and surnames are best left alone, unless in the case of a surname with a secondary meaning, such as "Castle," "Tree," etc., but even then the practice is inadvisable. A two-syllable euphonious word is an ideal mark for advertising purposes, and for registration purposes its validity is unassailable if it is a purely invented word, but care should be taken that in use the word does not describe a patented article or become the name of the article. In all cases the word must be used as a brand in its adjectival sense to distinguish the goods of the manufacturer from those of others, and not to describe the article. As a third necessary and precautionary step in using a trade-mark, it is essential that the proprietor's name should be associated with the mark, so that the public may know the source from which the goods emanate, and the mark should not be licensed out or allowed to go into disuse. Some good specimens of invented words are: "Kodak" (cameras), "Cerebos" (salt), "Hovis" (bread), "Glaxo" (food), "Lemco" (meat extract), "Izal" (disinfectant). Good specimens of non-invented but registrable words are "Sunlight" (soap), "Quaker" (oats), "Monkey" (soap), "Zebra" (polish), "Puritan" (soap), "Swan" (matches and pens), and "Robin" (starch). The adoption of letters or figures is not advisable, as they are difficult to protect. Surnames are not registrable except in special circumstances. Such names as "Cadbury" and "Mellin" have been registered in view of the fact that they are uncommon surnames and have been extensively used as exclusively indicating the goods of a particular firm. When a word for registration has been decided upon, the first step is to ascertain whether it is likely to be accepted for registration. For that purpose it is advisable to find out whether the word or a similar word has already been registered for the same or similar goods. A trade-mark expert can usually do this. There are fifty different classes in which goods can be registered. The goodwill in a trade-mark is one of the most valuable forms of property. A trade-mark is a valuable asset, and there are few successful firms whose business does not depend on trade-marks or trade-names. There are many marks which are worth millions of pounds, according to the value of the goodwill connected with them. The registration of a trade-mark in this country does not confer any rights abroad, and proof of home registration is necessary before a mark can be registered in certain countries abroad.

Practical Notes and Formulas.

Preservative for Amidol Developer.

An amidol developer prepared with 5 per cent. of anhydrous sodium sulphite and glycollic acid in the proportion of one-twentieth to one-tenth of the weight of sulphite is stated ("Brit. Jour. Photography," lxvii., p. 643) to be rendered so stable that it may be kept in an open vessel for several weeks without its properties becoming impaired. Glycollic acid causes the minimum disturbance of development characteristics.

Ammonium Sulphate as Weed-killer.

According to experiments in Worcestershire referred to in the "Journal of the Society of Chemical Industry" solution of ammonium sulphate can, in certain circumstances, be employed with advantage as a weed-killer. A solution made of the strength of 2 cwt. in 60 gallons of water killed 75 per cent. and crippled 20 per cent. of the corn buttercup (*Ranunculus arvensis*) on the land to which the solution was applied. The liquid, which also kills spurrey (*Spergula arvensis*), should only be used on weeds in cereal crops and in fine weather.

The calendar of the Imperial College of Science and Technology, South Kensington, London, S.W. 7, for the session 1920-1 (Stationery Office, 1s.), is a book of 500 pages, comprising, approximately, full details of the courses at its constituent institutions, together with lists of professors and prize-winners. The syllabuses of study in such subjects as chemistry and botany are of considerable educational interest. Particulars as to the diplomas of the College were given in The Chemist and Druggist, August 21, p. 102.

Rose Cultivation in France.

By Jean de Lorgues.

At the last meeting of the inter-ministerial committee on the cultivation of aromatic and medicinal plants, held at Lyons, it was decided to consider the very important question of the cultivation of French roses. Gattefossé has recently published an analysis of the two types of French oil of rose, and in this connection we must bear in mind that, although the Bulgarian otto of roses possesses certain very distinct characteristics, such as the geraniol and citronellol content, the French oils also present certain features which demand a careful study. Until 1911 the "Rose de Mai" was the sole variety used in France for perfumery purposes; at present, however, oil is distilled from plants known under the generic appellation of "garden roses," which during the winter are sold to florists, and in the spring yield an abundant number of flowers, at a very low cost. It is the use of these garden roses for perfumery that enables the distillers to sell products at prices which bear no relation to the cost of those obtained from the "Rose de Mai," cultivated solely for perfumery purposes.

Among the garden roses the following varieties are represented: "Rose Brunner," "Rose Vanhoutte," "Paul Nabonand," "Rose Blanche Drusky," besides a number of hybrids obtained from such varieties as: "Paul Neyron," "Souvenir de la Malmaison," "Maréchal Niel," "La France," "Gloire Lyonnaise," and "Gabriel Luizet."

All these flowers are now being used with satisfactory results when extracted by solvents; the yield, however, differs considerably when they are submitted to distillation. The oils obtained by distillation possess characteristics which depend not only upon the nature of the flower, but also on its treatment. The specific gravity of the oil obtained from "Rose de Mai" is usually higher than 0.870, and sometimes is as high as 0.890; its melting point is 25.5°, and its optical rotation is −3°. According to the experts, the specific gravity of Bulgarian oil of rose should not exceed 0.865, and its optical rotation −1° 30′.

The oil distilled from the "Rose Brunner" is yellow, and frequently opaque, the same as that obtained from the "Rose Vanhoutte"; its melting point is often above 26°. The oil distilled from the "Rose Nabonand," on the other hand, melts at 18°, its specific gravity is 0.8537 at 32°, optical rotation −2°, and saponification index 42. The oil of rose supplied by Gattefossé, which includes all these varieties, exhibits the following constants:

Specific gravity	0.862 to 0.867
Refractive index	1.4600 to 1.4638
Melting point	23° to 26°
Geraniol	35 to 37 per cent.
Citronellol	36 to 48 per cent.

Other distillers, however, obtain oils which differ to some extent from the characters of the above type, viz.:

	Montaland	Dhumez	Rose Blanche Gattefossé
Specific gravity	0·864	0·863	0·865
Optical rotation	−2° 25′	−1° 9′	−1° 4′
Melting point	20°	—	—
Saponification index ...	32	—	—
Geraniol	32	—	—
Citronellol	38	49.15	61%

In view of Dr. Anthonoff's statement that a good Bulgarian otto of roses should contain from 20 to 40 per cent. of citronellol, it is a matter of importance to investigate the causes responsible for giving rise to a higher, or lower, content of this constituent, when the oil is distilled directly from the flowers, or obtained from the rose-water. It is now necessary to establish exactly the analytical data which distinguish a genuine oil, without compelling the distiller to sophisticate his own genuine product in order to adapt it to the existing chemical requirements. The inter-ministerial committee, in deciding to investigate this subject, will have an opportunity of reviewing the work already done by such experts as R. Gattefossé, and of officially sanctioning the standards suggested—a course urgently required in order to place this subject on a sound basis.

Medical Gleanings.

Poisoning by Aspirin?

Dr. Ethelbert Hearne, in a letter to the "British Medical Journal," II., 1920, p. 418, states that he was recently poisoned by a 10-grain dose of aspirin. He had taken similar doses both before and since without any harmful effect. The symptoms were as follows: In an hour the eyes became nearly closed, with œdema of the lids and intense itching. The inner sides of the thighs and the flexor surfaces of the arms and legs were the chief sites of a rash, which appeared in large raised patches, and disappeared in a few hours. As curative treatment Dr. Hearne took a soda bath and a saline purge.

Use of Silicates in Medicine.

Professor Sartory (of Strasbourg University), M. Scheffler (of St. Etienne), and M. Pellissier, who have studied the use of silicates in therapeutics, reported the results at the last meeting of the Academy of Sciences, Paris. Intravenous injection of sodium silicate has hitherto been considered dangerous, but the authors, who experimented first on guinea-pigs and rabbits, and finally on the human subject, state that such injections—commencing with a milligramme daily and finishing with 1 centigramme—are supported without ill-effect, either immediate or subsequent. The chemical is useful in arteriosclerous and cardiorenal cases. Arterial tension is reduced, blood viscosity is lowered (it sometimes increases, but always to fall to normal afterwards), dyspnœa diminishes and general vitality improves.

Treatment of Kala-azar.

Dr. J. Dodds Price, in "The British Medical Journal," II., 1920, p. 453, relates his experiences while in Assam in the treatment of kala-azar by intravenous solutions of antimony. Dr. Price used, and strongly recommends, the employment of solutions of antimonyl sodium tartrate in preference to any other salt of antimony. The majority of cases were cured after a course of 30 grains, 1½ grain in 10 c.c. of normal saline solution being regarded as the full dose, and, as the initial dose, 4 c.c. of solution of this strength. The median basilic vein was usually selected, and the skin over the vein painted with iodine. The injections were always given when the patient's stomach was empty, and he was made to lie down for half an hour afterwards. If there was the slightest tendency towards coughing, the next injection was reduced by ½ c.c.

Therapeutic Uses of Benzyl Compounds.

Dr. David I. Macht has reported the results of his investigations of some of the benzyl compounds. The alkaloids of the benzyl isoquinolin group are stated to lower the tone of non-striped muscle, which property is shared by benzyl benzoate and acetate. The latter is somewhat irritating when taken by the mouth. A wide margin exists between the therapeutic and toxic doses of benzyl benzoate. Saligenin (hydroxy-benzyl alcohol) acts as a local anæsthetic, being about twice as effective as benzyl alcohol and about thirty times less toxic than novocain. Both saligenin and benzyl alcohol possess antiseptic properties, and in 0.5 per cent. solutions prevent the growth of streptococci. The latter drug has been found effective in excessive intestinal peristalsis, pylorospasm, and other conditions, including hiccough. When administered in cases of whooping-cough the results were very gratifying. It did not shorten the disease, but acted as a palliative, reducing the paroxysms both in number and violence. The dose varied from five to forty drops in water, three or four times a day, according to age and severity of the disease. The addition of 1 to 5 per cent. of benzaldehyde made the mixture more effective.

Efforts are being made to induce the authorities to alter their decision to close, in July 1921, the City and Guilds Technical College, London, E.C. A number of ex-Service students are affected by the decision.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Constituents of Squill.—E. Buschmann ("Arch. Pharm.," vol. cclvii., p. 79) has undertaken an exhaustive study of the constituents of squill, isolated from the fresh bulb. The bulbs were first extracted with cold water, and in the aqueous solution choline was isolated. They were then treated with alcohol, and the residue obtained on evaporation was successively extracted with petroleum ether, ether, and chloroform. The petroleum ether extract yielded the following substances: Xanthoscillide, lemon-yellow crystals, melting at 117°-118°; scillisterol, melting at 163°-164°; phytosterol, melting at 134°; a brown oil with a specific gravity of 0.9248 and iodine index of 57 to 60. This was found to contain formic and palmitic acids, probably also acetic (or propionic) and oleic acids. The ethereal extract contained a phytosterol glucoside in irregular, colourless crystals, melting under decomposition at 290°. In the chloroformic extract a small quantity of a product obtained in long needles was isolated, which was not further investigated.

Detection of Cinnamic Acid.—Denigès ("Bull. Soc. Pharm.," Bordeaux) has found that cinnamon acid in the presence of ferric chloride and hydrogen peroxide is converted into benzoic aldehyde, carbon dioxide, and water, and the mixture evolves an odour of bitter almonds. To demonstrate the presence of cinnamic acid, one drop of solution of ferric chloride is added to 2 c.c. of the liquid to be tested, and the mixture is heated to boiling, whereupon one drop of solution of hydrogen peroxide is added. In the presence of cinnamic acid an odour of bitter almonds should become apparent, particularly on again heating the mixture to boiling. By this test it is possible to detect the presence of 0.04 milligram of cinnamic acid. When testing complex compounds containing cinnamic-acid esters, as balsam of Peru or tolu, etc., if these are liquid one drop is used, or if solid a few particles of the substance, to which 4 c.c. to 5 c.c. of water and two to three drops of solution of caustic soda are added; the mixture is heated to boiling, and while hot saturated with sulphuric acid (10 per cent.), whereupon one drop of solution of ferric chloride is added, the mixture again brought to boiling, and one drop of solution of hydrogen peroxide added. On again heating, the characteristic odour of bitter almonds at once becomes apparent.

Free Salicylic Acid in Aspirin.—Mr. A. Nutter Smith, Ph.C., F.C.S., whose paper on *Aspirin* before the British Pharmaceutical Conference was reported in the *C. & D.*, July 24, p. 89, contributes to the "Analyst" a further note on the masking of the free salicylic acid present in aspirin tablets when tested for with ferric-chloride test solution. The substance used is tartaric acid, some colourless non-ionised salt of iron being formed, there being no free "Fe" ions available for the formation of the violet-coloured ferric salicylate. Certain other acids will produce the same phenomenon, particularly citric acid (1 per cent. of the latter being sufficient to mask the presence of about 0.2 per cent. of free salicylic acid). Tartaric acid, citric acid, etc., when present, can readily be detected after removal of the salicylic acid, acetylsalicylic acid, etc., from a cold aqueous extract of the tablet, and conversely the free salicylic acid can be estimated colorimetrically after separation by means of some suitable solvent such as ether, chloroform, etc., which does not extract the masking substance; when either tartaric or citric acid is present a mixture of equal parts of ether and petroleum ether is a better solvent than ether alone, since both acids are slightly soluble in ether. All samples of aspirin tablets, therefore, which, after being powdered, give no violet coloration with ferric-chloride test solution, should be viewed with suspicion.

Adulteration of Balsam of Peru.—Professor L. van Itallie ("Pharm. Weekbl.," No. 45, 1920) draws attention to the adulteration of some samples of balsam of Peru submitted to him for analysis in the pharmaceutical laboratory of the University of Leyden. One sample, which was more fluid than is the case with genuine balsam, exhibited the following features:

Specific gravity	1·146
Acid value	48·8
Saponification value	356
Cinnamein content	70 per cent.
Saponification value of the cinnamein	382

From the above figures it is immediately apparent that both the saponification value of the balsam and of the cinnamein were too high, while the acid value was too low. It was therefore evident that the balsam was adulterated by the addition of an ester, and on further investigation, whereby phthalic acid was isolated, it was evident that phthalic acid dimethyl ester had been added. The latter can easily be demonstrated by heating to boiling point one drop of balsam with 0.1 gram of resorcin and ten drops of sulphuric acid; if phthalic acid is present, fluorescein is formed, which becomes apparent on the addition of alkali. To avoid carbonisation, it is advisable to dilute the warm mixture with water, and to add carefully a portion of this dilution to some solution of caustic sodium, whereupon the fluorescence appears. Van Itallie draws attention to the fact that benzyl benzoate is also used to sophisticate balsam of Peru, and in view of the fact that such adulterations are frequently carried out in such a way that the balsam, on analysis, exhibits quantitatively the characters required of a genuine balsam, it is a matter of importance to examine qualitatively the cinnamein found.

The Production of Coumarin.

The presence of coumarin has been demonstrated in a number of plants; however, the observation has been made that this principle occurs as a rule after the plant has been dried, or submitted to certain processes, from which it has been generally assumed that the coumarin is formed by the action of a ferment on some glucoside present in the plant. Professor Bourquelot, in collaboration with M. H. Hérissey, has undertaken an investigation of this problem, and the results of his highly interesting study prove a complete confirmation of the above hypothesis ("Journ. de Pharm. et Chimie"). The first step consisted in destroying the ferments present in the plant by exposing it to the action of boiling water or of boiling alcohol, and an examination of fresh plants—*Melilotus officinalis* and *Asperula odorata* were studied—treated in this way showed that they contained insignificant traces of coumarin. In the second series of investigations the ferment present in melilot was first extracted, 50 grams of the fresh plant was contused and macerated for twenty-four hours with 250 c.c. of alcohol (95 per cent.), filtered, and the residue, containing the ferments, dried at a temperature of 34° to 35°. To extract the other principles, such as the glucosides, 300 grams of the green portions of the fresh plant is placed in 2,000 c.c. of boiling water, and boiled for a few minutes; on cooling the liquid is removed by decantation, the plant parts are contused and again added to the liquid, which is brought to boiling for a few minutes. On cooling, the liquid is decanted, and the residue expressed; 500 c.c. of this liquid, in which the ferments have been destroyed, is submitted to distillation, the distillate on extraction with ether yields the merest traces of crystalline product—*i.e.*, no coumarin is present. The residual liquid, which amounts to 400 grams, is made up to 500 c.c. by the addition of 100 c.c. of water after cooling, and 1.3 grams of the ferment in powder, obtained as described above, is added. After standing for forty-eight hours at ordinary temperature, 100 c.c. is distilled and extracted with ether. On evaporation, the ether yields a residue of coumarin in the shape of long needles. As a control test, the ferment is added to the boiling plant extract, whereby it is "killed," when it will be found that no coumarin is obtainable on distillation and extraction with ether, a conclusive proof that the formation of coumarin is due to the action of the ferment on a constituent of melilot. As a result of his exhaustive investigations on this subject, Professor Bourquelot assumes that the production of coumarin in both plants is due to the decomposition of a glucose, probably *d*-glucose, by the action of emulsin.

Birth.

Farmer.—At a Margate nursing home, on November 15, the wife of J. E. Farmer, M.P.S., of a daughter.

Marriage.

Curtis—Ashbee.—At All Saints' Church, Leigh, Wiltshire, on November 3, Charles Alfred Curtis (R. Hovenden & Sons, Ltd., City Road, London, E.C. 1) to Rosalie, only daughter of Mr. Henry Ashbee.

Deaths.

Gayton.—At 70 Cavendish Avenue, Eastbourne, on November 11, Miss Ethel Gayton, chemist and druggist, 132 Haverstock Hill, London, N.W. 3, aged forty-six.

Hines.—At Norfolk House, Danvers Road, London, N. 8, on November 20, Mr. Henry Thomas Hines, chemist and druggist, aged fifty-one. Mr. Hines was born and educated in Norwich, where he served his apprenticeship to the late Mr. G. B. Andrews, chemist and druggist. After qualifying (in 1891), he commenced business in St. James's Road, Holloway, N., subsequently removing to 86 High Street, Whitechapel, E. He was an able photographer, and turned this gift to account in launching the Express Developing Co., which he disposed of last year. Mr. Hines was a member of the East London Pharmacists' Association, in which his genial personality gained him many friends. He leaves a widow and a son—Mr. Cyril T. Hines, a winner of prizes in the "Corner for Students" competitions.

Reid.—At 5 Cromwell Road, Bloemfontein, Orange Free State, on October 27, Geordie, the infant son of Mr. James Reid, local manager for Heynes Mathew, Ltd.

Symons.—At Marazion, on November 20, suddenly, Mr. Netherton Hosking Symons, retired chemist and druggist, Beach House, aged sixty-five. Mr. Symons, who was unmarried, succeeded his father, the late Mr. John Netherton Symons, in business at Penzance, retiring some twelve years ago. Death occurred while he was watching a billiards match at the Marazion Institute. His brother, Dr. John Symons, deposed at the inquest that Mr. Symons had suffered from angina pectoris, and a verdict was recorded correspondingly.

Vizer.—At Tunbridge Wells, on November 6, Mr. Edwin Bennett Vizer, Ph.C., aged eighty-nine. Mr. Vizer's Major certificate was numbered 357, and dated from the year 1853. He was in business for some years at 154 Marine Parade, Brighton.

Walker.—At Gladstone Cottage, Cupar, on November 16, Eliza Paul, widow of Mr. Thomas Walker, chemist, Uddingston, aged seventy-eight.

Personalities.

Mr. A. Ridley, Ph.C., Tenterden, has been returned unopposed to the town council.

Mr. J. W. Steward, Ph.C., Bridgnorth, has been re-elected an alderman of the Corporation for a term of six years.

The organ of Gloucester Cathedral has been reconstructed and enlarged at the expense of Sir James Horlick, Bt., and Lady Horlick.

Mr. Geoffrey Le Mesurier Mander (Mander Bros., chemical-colour manufacturers, Wolverhampton) has been appointed Sheriff of Staffordshire.

Mr. Douglas W. Bull, medicinal-capsule manufacturer, 4 Churchill Road, London, E. 9, has been installed M.E.Z. in the Philbrick Chapter, No. 1662.

Mr. Geo. W. Crawford, managing director of Medical Hall, Ltd., Singapore, left, on November 26, from Liverpool, per s.s. *Amarapoora*, for Singapore, via Rangoon.

Freese & Moon, Ltd., sole agents for Les Grands Parfums Avenel, have appointed Mr. F. Gilley as their representative in Scotland and the North of England.

The Glasgow Branch of the Scottish Pharmaceutical Federation have appointed Mr. H. G. McMillan, C.A., of Baird & McMillan, 79 West Regent Street, Glasgow, to be secretary and treasurer of the Branch. Mr. McMillan is an expert in trade-union matters.

Councillor Alban Atkin, dispensing and homœopathic chemist, 243 West End Lane, London, N.W., has been re-elected to the public health, works, and assessment committees of the Hampstead Borough Council, and also as a school manager under the London County Council.

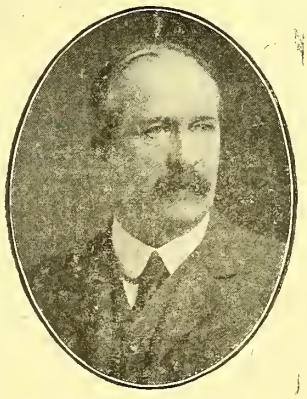
Mr. C. S. Gibson, M.A., M.Sc., F.I.C., has been appointed to the London University chair of chemistry tenable at Guy's Hospital Medical School, S.E. Professor Gibson has till now occupied a similar position in the Egyptian Government School of Medicine at Cairo, and is the author of numerous monographs.

Mr. A. W. Topping has joined the board of directors of Gale & Co., Ltd., wholesale and export druggists, 15 Bouverie Street, London, E.C. 4. Mr. Topping, who has an extensive experience of the export trade, will control the export department of the company. The other directors are Mr. E. A. P. Gale and Mr. A. D. A. Gale.

The names of Lieutenant Reginald William Reade, B.A., and Captain T. Harold Reade, M.Sc., A.I.C., sons of Mr. Thomas Reade, chemist and druggist (Reade Bros. & Co., Ltd., manufacturing chemists), are inscribed on recently erected war memorials at Trinity Church, Wolverhampton. The name of Lieutenant Reade, who was killed in Mesopotamia in 1916, appears on the Gothic cross placed, in memory of those who gave their lives, in front of the church. That of Captain Reade is inside the church on a tablet which contains the names of others associated with the church who served in the Forces.

The following medals have been awarded by the President and Council of the Royal Society: a Royal Medal to Mr. W. Bateson, F.R.S., for his contributions to biological science; the Copley Medal to Mr. H. T. Brown, F.R.S., for his work on the chemistry of carbohydrates, the assimilation of atmospheric carbon dioxide by leaves, and on gaseous diffusion through small apertures; the Rumford Medal to Lord Rayleigh, F.R.S., for his work in physical chemistry; the Darwin Medal to Professor R. H. Biffen, F.R.S., for his work on scientific principles applied to the breeding of plants; the Hughes Medal to Professor O. W. Richardson, F.R.S., for his work in experimental physics.

Sir James Dobbie, F.R.S., LL.D., M.A., D.Sc., whose retirement from the position of principal of the Government laboratories is announced, was born in Glasgow in 1852, and studied at the Universities of Glasgow, Edinburgh, and Leipzig. After acting as assistant to the professor of chemistry in Glasgow University from 1881 to 1884, he became professor of chemistry in the University of North Wales. In 1903 he was appointed director of the Royal Scottish Museum, Edinburgh; six years later he succeeded Sir Edward Thorpe as head of the Government laboratories. Sir James was elected a Fellow of the Royal Society in 1904, and has been a Fellow of the Chemical Society since 1882, serving both as a Vice-President and on the council of the Society. He is best known by his work on the constitution of alkaloids and on the relation between the chemical structure and the absorption spectra of organic compounds. His knighthood was conferred in 1915.



Sir James Dobbie.

Trade Notes.

RUVOIRE ET CIE.'S perfumes are the subject of the advertisement of Mr. A. M. Evans, 154 Church Lane, Harpurhey, Manchester. These odours are spirit-free.

ISMA FLORAL OTTOS are the subject of a special offer in the announcement of the Parfumerie Isma, Tunbridge Wells. These are packed in rod-stoppered bottles and retail at 1s.

WINOX, LTD., Richmond, make an announcement regarding a Winox window-display competition, in which the first prize is 100*l*. The competition remains open until June 30, 1921.

W. SUTER & Co., 12 Edmund Place, London, E.C., have been appointed sole selling agents of lemon, bergamot, orange, and other essential oils for the Société des Parfums Naturels de Sicile, Messina.

BORALIA COCONUT-OIL SHAMPOO is a speciality of Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E. The appearance of the preparation and the showcard is shown in the company's advertisement in this issue.

LUCCA OLIVE OIL.—Tucker & Cross, 15 St. Mary Axe, London, E.C. 3, have been appointed sole agents in the United Kingdom for pure Lucca olive oil manufactured by Cesare Stiavelli di Ferdinando, of Pescia, Lucca, Italy.

"GLYCERIN LEMON AND HONEY."—This preparation, which was advertised last week by E. H. Butler & Son, manufacturing chemists, Leicester, was incorrectly priced; the wholesale price should have been given as 14*s*. 6*d*. per dozen.

BOTOT PERFUMES.—Van Oppen-Ross Ind, Ltd., 38 Basinghall Street, London, E.C., reproduce in their announcement illustrations of some of the Botot parfums de luxe, for which they are sole agents for Great Britain. The perfumes are for high-class trade.

CRÊME FIAMETTE.—Areco, Ltd., 11 Southampton Row, London, W.C. 1, give in this issue a specimen of the advertisements of Crême Fiamette (a vanishing cream), which are being employed in connection with the company's new advertising scheme to the public.

SOUTHALL BROS. & BARCLAY, LTD., Birmingham, give particulars in their advertisement in this issue of a special offer of carriage-paid perfumes. A Christmas perfumery catalogue is sent by Messrs. Southall on receipt of a postcard, and samples are also obtainable on application.

MR. H. SLOOG, 45 Great Marlborough Street, London, W. 1, sends us a copy of the sumptuous catalogue of Caplain Saint-André Fils & Cie., Paris, manufacturers of the salts of precious metals and of platinum, gold, and silver apparatus for laboratory use. Mr. Sloog is the London agent for the Paris company.

"FOR MILADY'S TABLE" is the title of a tiny daintily produced booklet advertising toilet preparations, which is issued by Ayrton, Saunders & Co., Ltd., Liverpool, for distribution by chemists. The booklet gives illustrations in colours of the different toilet articles of which particulars and retail prices are given. Those who sell Ayrton's goods should inquire for this advertising aid.

GRAESSER-MONSANTO CHEMICALS.—The Graesser-Monsanto Chemical Works, Ltd., Ruabon, North Wales, and 62 London Wall, E.C. 2, have issued a concise price-list of their chemical products, which represent the combined manufactures of R. Graesser, Ltd., and the Monsanto Chemical Works. Phenols and cresols take prominence in the list, then follow "fine" and medicinal chemicals and intermediate products. The Monsanto products have an excellent reputation in the United States, and the chief endeavour of the combined companies will be the maintenance of their standard on this side also.

MOORLAND SPECIALITIES.—From W. B. Cartwright, Ltd., manufacturers of pharmaceutical specialities, Rawdon, Leeds, we have received samples of some of their newer packed goods, and a selection of the well-produced advertising matter which is sent out with them. As a specimen of the scale upon which these articles are packed, we may refer first to Lung Tonic, put up as a "known, admitted, and approved" remedy. This is packed in panel flats and enclosed in nicely designed cartons. Window-posters and showcards are sent with it—five distinct designs of showcards and three kinds of posters. The showcards are 12 by 9¾, and are printed in colours, the wording conveying an appropriate reference to the illustration on the card. The window-posters differ in wording and sizes. As an example of a toilet preparation, we may instance the Moorland skin cream, a thick liquid, put up in white flats and supplied in three different labellings. Appropriate showcards—quite out of the common—are supplied to go with the particular variety of packing which the chemist stocks. Other special preparations are "extract of buttermilk," a toilet milk, emulsified cocoanut-oil shampoo, Moorland cold cream, and Zonix menthol and liquorice pellets.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," November 17, 1920.)

"DOESELLA DAIRY PRODUCE" on oval landscape; for milk products (42). By C. & G. Prideaux, Ltd., 10 Hop Exchange, London, S.E. 1. 404,023. (Associated.)

"REVERIE"; for complexion powders (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E. 15. 400,879.

"DENSHINE"; for tooth-powders and pastes (48). By H. M. Parsons, 46 Follywell Street, Blackburn, Lancs. 406,476.

"YAVAHNA," "CABIRIA," and "SAKOUNTALA"; for perfumery, etc. (48). By Bichara de Paris (England), Ltd., 14 Grafton Street, London, W.1. 406,878/879/880.

"AMOUREUSE"; for face-powder (48). By Vera A. Daniel, 1 Halley House, Vauxhall Bridge Road, London, S.W. 1. 406,981.

"ELFRIDA"; for perfumery, etc. (48). By W. B. Cartwright, Ltd., Mount Vernon Road, Larkfield, Rawdon, near Leeds. 406,961.

"PEDOKUBE"; for tablets for toilet use (48). By the Scholl Manufacturing Co., Ltd., 1-4 Giltspur Street, London, E.C. 1. 407,096.

"VASHTI"; for all goods (48). By Langford & Co., 156-157 Aldersgate Street, London, E.C. 1. 407,660.

"OATINE"; for toilet preparations (48). By Opera Omnia, Ltd., Mermaid Court, Borough, London, S.E. 1. B 408,093.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

E/2211. Blue Cross brand boracic, zinc ointments, etc.
S/2311. Ulsol tooth-paste
A/2011. Famol, for rheumatism
L/1811. Kassunal
H/2411. Fiusol radiator for disinfecting purposes
F/2511. Whitehead's essence of Mustard
D/2511. Metrolax (latex) thermometers.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4

Allcock's porous plasters, L/1811
Antipon, M/1811
Atophan substitute, S/2311
Ansol suppositories, M/1811
Bitro phosphates, M/1811
Bromide preparations makers here, Br/2311
Coutts' acetic acid, M/1811
Crown Perfumery Co.'s products, B/2311
Drummer and Dolly dyes, M/2311
Hedley's ethyl chloride, W/1811
Jetoline marking-ink, M/1811
Petrole Hahn, S/1911
Phenol-blue, D/2011
Staphylase, S/1911
Swiss ampoule files, S/1911
Trench's remedy for epilepsy, E/2211

APPRECIATIONS.

From a well-known manufacturing firm in the Midlands:

"We always look upon your good selves as a sort of 'inquiry within' upon everything. We should now like to know if you could tell us . . ."—(A1210.)

Observations and Reflections.

By Xrayser II.

You Express a Doubt

whether the Society has any mandate from the electorate to decide what trade organisation should take over the duties that are outside its powers. I should say there is no doubt whatever that it has no such mandate, and never will have. It would be quite incorrect for the Council (which is virtually the Society) to attempt anything savouring of dictation, or to exert any official pressure in this matter. After opposing to the best of its ability the Scottish and other movements towards independence in purely business affairs, its motives in any such action would be suspect, and the suspicion would gravely prejudice any scheme the Council too eagerly favoured. The best thing it can do is quietly to relinquish the activities forbidden by Mr. Justice Peterson's judgment, with those which can most conveniently be left to an independent body, and look on as benevolently as possible while we form such a body, prepared, when it is formed, to act loyally in concert with it in any case in which common action might be desirable.

Meanwhile

we should be grateful for any help, by suggestion or otherwise, offered by individual members of the Council, acting purely as individual members of the craft. Mr. Skinner's suggested plan, for instance, is a welcome contribution to the discussion of the problem before us, and probably it is as definite and goes as far as is desirable at present. Your own action in providing for an expression of trade opinion is, however, the most useful step that has yet been taken; if anything can give a voice to the habitually voiceless pharmacist of commerce this should do so, and I confidently expect such a response as will at least afford data for a satisfactory solution of the problem. The second and third of your questions are the most debatable—are, indeed, I should say, the only ones upon which there will be any material difference of opinion. My own answer to the third (which is the more important of the two) was given last week by anticipation. Whether there is a general agreement upon it or not, it is well that it should be asked, since it brings our consideration of the subject to a definite point. If the objects of the new body are to be similar to those of the Scottish Federation, its form could hardly be better, though doubtless modifications might be required. It is a case in which a "leading question" is called for.

Alas for One's Hopes!

Since the above notes were written the draft scheme for the new trade organisation adopted at the joint meeting of the Council and the Local Associations Executive has reached me. If nothing more than the recommendation of this scheme to our consideration were intended there would be nothing to object to, even if the scheme itself were unacceptable, but there is apparent reason to fear that an attempt will be made to foist it upon us by the action of existing organisations. With the objects set forth in the scheme we need not quarrel. Though they go in certain directions beyond those of the Scottish Federation, and are stated with greater definiteness, there is no incompatibility between the two. But when we come to the questions of membership, subscription, voting power, and the rest, the case is very different. The effect of the provisions under these heads would be to make the Chemists' Defence Association and the Proprietary Articles Trade Association integral parts of the new body, with the right (as you said last week) to act for chemists in trade matters. We should, to borrow an old flower-name, become three faces under one hood. Moreover, the secretary of the P.A.T.A., the most prominent personality at present in pharmacy, is also secretary to the Society, and his tenure of the latter post would be felt as a chain about our necks. But, apart from personal considerations, the new union must start without even the semblance of external control. It must stand from the first upon its own feet, be free, and feel itself free, to develop as it will, to make its own rules and follow its own guidance. It rests with those to whom your last week's voting paper was sent to say whether it shall be so or not.

The L.A.E.

proposes to ask for what it calls an increase of 20 to 25 per cent. on Insurance dispensing-fees for 1921. An examination of its proposed new scale leaves me in doubt whether the total increase will be as much as is supposed. "Compound liquid medicaments" are, indeed, to be raised from 5.4*d.* to 6*d.*, but they are in future to include emulsions, which are now separately charged 7.2*d.* Ointments, pastes, and confections are to be reduced from 6.6*d.* to 6*d.*, while pills, now charged 9.6*d.* for any number not exceeding twenty-four, are to begin with a fee of 6*d.* for the same number. The fee for plasters is to be reduced from 11.4*d.* to 6*d.*; that for blisters from 7.2*d.* to 6*d.* Tablets, now charged 14.4*d.* for quantities not exceeding twelve, are reduced, so far as that quantity is concerned, to the same fee as pills; and cachets, in certain quantities, are also reduced. Some of these reductions may not matter much, but in the aggregate they will go some way towards counterbalancing the advance on mixtures, etc. I do not forget that the abolition of the stock-mixture and non-extemporaneous fees is demanded; how much this may increase the total percentage is a nice point; the question is whether it will redress the balance. And there is another question:

Is an Increase

of 20 to 25 per cent. enough, granting that the new scale ensures it? Last year we asked for an increase of 50 per cent. and got one of about 35, which we only accepted under the mistaken impression that it would be revised in six months. The present proposed increase is an advance of not more than 5 to 10 per cent. on what we then considered—and I may say proved—ourselves entitled to. During the twelve months that have since elapsed, the general cost of living and our business expenses have both increased—the latter materially. Rents are in many cases higher; rates everywhere are something like double what they were; salaries are advancing; railway and other transport rates have greatly increased, as have other incidental expenses. Add to these our unavoidably increased personal expenditure, and the proposal of the L.A.E. appears lamentably inadequate, even if it should work out as well as is expected. We must not, as we have done before, let ourselves be committed to this scheme without having fully considered it; the *C. & D.* complained last December of the secrecy with which negotiations with the Ministry of Health were being conducted; this year we must insist on knowing what is going on.

The Council Deserves

our thanks for its proper and prompt action in connection with the Greenwood case. The anomaly of allowing doctors to dispense their own prescriptions (or to dispense—in another sense—with prescriptions altogether) is in this case seen in the proportions of a public scandal. The individual chemist can, after all, do little to abate this evil. A word in private now and then may be effective with individuals, but to call public attention to any particular instance is hardly possible to a man whose business may be ruined by the enmity this would excite against him. I have myself known several bad cases of mistakes that could not have happened if the medicine had been dispensed by a chemist—one fatal one was brought to my notice not very many years ago by a friend once associated with me in business, another I once heard a doctor confess to. The resolutions forwarded by the Council to the Privy Council and other Government officials seem to cover the whole ground and should have some effect. They ought, however, to be forwarded to non-official members of Parliament too.

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Editorial Articles.

The "C. & D." Plebiscite.

We have to thank the numerous correspondents who have expressed their appreciation of the steps we have taken to obtain the authoritative views of chemists upon the question of the constitution of the body which in future is to concern itself with the trade interests of pharmacy. Although the time by which the voting-papers are to be returned (November 27) has not expired, it is permissible to remark that the practical unanimity of the replies has been very striking, which fact proves that our action has been approved generally. It is advisable to repeat that the plebiscite is undertaken in an entirely disinterested spirit, our only desire being to do a service to the trade. The Pharmaceutical Society, after the test case, is unable to spend any of its funds in taking counsel of chemists on trade matters, so that only an independent body or journal can assist usefully during the interregnum. As has been recognised, this Journal has nothing to gain, whichever way chemists vote on this question; but there can be no doubt at all that chemists are entitled to be consulted fully upon such a vital question. There are one or two points regarding the *questionnaire* which may be made clearer, so that those who have not yet sent in their replies may do so with the fullest information. The second question, "Should there be separate bodies for England and Wales?" was framed so as to give the opportunity of expressing opinions on a national question. As is well known, Scotland has already set up its organisation, and if Wales aspired also to a national federation the time to arrange it is now. The question, however, is not one of the most vital, and, as several of our correspondents have pointed out, when the main body has been formed, any demand from the national spirit of Wales for a separate federation could readily be arranged for. It is understood also that chemists do not bind themselves to join any new organisation of whose objects they did not generally approve. Some extracts from letters we have received may be useful as showing the interest excited by the plebiscite.

I strongly advise amalgamation with the Scottish Pharmaceutical Federation.

The Scots are shrewd thinkers; their scheme should be adopted for this country.

I have been in business for about thirty years, and although a M.P.S., nearly all the time have strongly advocated a separate body—independent of the Pharmaceutical Society and the regular staff. I think also that the large number of chemists who for various reasons have kept outside the Society would be more likely to join an independent body.

If the Society are prepared to give up their claims to be the controlling power, even in an indirect way, with the new body, there would be no necessity to sign the form.

. . . It seems to be imperative that the Society should have no say whatsoever, even through the Chemists' Defence Association or the Local Associations Executive, and that the new organisation should be absolutely independent.

I would be prepared to contribute to the promotion expenses so long as the men who run the scheme eventually decided upon are practical business men, and not visionary dreamers. The other week I listened to —— and —— talking to the pharmacy students at —— on the future prospects of bacteriology for pharmacists. But these men could not tell me what they were doing to promote the interests of the many bread-and-butter pharmacists.

There is no doubt whatever that for the new trade organisation to be successful membership must be compulsory. A small entrance fee and subscription for a commencement to gather in 70 or 80 per cent. of the trade, the screw being put on the rest *via* the manufacturers and wholesalers. I would suggest the wording of the membership form to contain an announcement that no obligations will be binding in any district where there is not a complete membership. Anything on these lines I would support with all my heart.

It is not too much to say that the decision taken by the trade now is vital, and that the future depends on the wisdom or unwisdom of that decision. Therefore that decision must be a considered decision—"quiet, calm deliberation disentangles every knot." I favour an independent body on the lines of the Scottish Federation, working *with* the Society for the best interests of pharmacy as a whole, but I want to see all avenues which lead, or may lead, to the ideal carefully investigated; the issue is too serious for us to make any mistake. We must evolve a scheme which will embrace the whole; we must consider the position of the retail, the wholesale; of organisations such as the P.A.T.A., the C.D.A.; possibly of multiple-shop companies; of commercial organisations such as Ucal and Rexall; and particularly the present position of local Associations, Pharmaceutical Committees, and the L.A.E.; and last, but not least, the parent Society. We have a tremendous opportunity to co-ordinate all our varied interests; there is no room for dissensions; we must just pull together—employees as well as employers.

We are hoping that the response to our circular will be sufficient numerically to enable the opinion of the trade to be gauged correctly. As it is, all parts of the country are represented in the replies, but we are not yet satisfied with the number of papers returned. We shall be glad, therefore, if those who have not responded will let us have their answers; if the voting-paper has been mislaid, replies on a post-card, using the numbers of the questions, will be sufficient. The position in some respects resembles that which arose in 1868, when Mr. Cyrus Buott, secretary of the United Society of Chemists and Druggists, finished a circular to the trade with the words:

Let it not be said of one of you when the struggle is over and you may be reaping the benefit, "He never moved a finger or gave a penny to the cause." . . . All that is now asked of you is that you will help yourselves.

Pharmaceutical Censorship.

WHAT would British manufacturers of proprietary medicines say if a British association of pharmacists were to arrogate to itself the right to recommend publicly the sale only of such preparations as have complied with certain formalities drawn up by such an association, and at the same time cast aspersions on those products which have not complied with its demands? It is evident that such an attitude can only be adopted by a professional organisation possessing a very powerful support from its adherents, and endowed with a charter of far-reaching powers. In this respect our Belgian *confrères* possess an almost despotic censorship, as is apparent from the notices which appear in the "Journal de Pharmacie de Belgique" of November 14 and 21, the official organ of the Nationale Pharmaceutique, the federation of Belgian pharmacists, to which the Government entrusts, *inter alia*, the distribution of all the pharmaceutical products received as reparation from Germany. These notices state that certain preparations, which are enumerated, for the treatment of affections of the respiratory tract, and certain laxatives, have been registered in the National Codex. Following each list of these preparations appears the statement:

We earnestly beg our *confrères* to reserve their sympathies to these preparations, to the exclusion of all other specialities of the same kind. The products which are not registered in the National Codex are tainted in some way, and the pharmacist is obliged to exercise a great deal of prudence in supplying them. It is only the presence of the stamp of the National Codex on specialities which ensures perfect tranquility. Specialities which do not bear this stamp are open to suspicion.

The Belgian pharmacist is legally responsible for every preparation he sells, and in order to provide a safeguard when supplying products of unknown composition—that is to say, to relieve him of the task of personally assuring himself by analysis of their composition—the National Codex was instituted by the Nationale Pharmaceutique of Belgium some years prior to the war. Adherence to its provisions takes the form of a contract entered into between the manufacturer and the organisation, whereby the former engages himself to observe all the legal requirements concerning the sale of pharmaceutical products, that they comply with the standard of the Belgian Pharmacopœia or of some other recognised work. If the product in question is not included in a work answering this description, the manufacturer binds himself to the obligation that it shall comply with the formula he has disclosed to the organisation, and will be of the same composition as the sample submitted for approval. On being approved by the organisation, the preparation is registered, and receives a serial number. To indicate that it has been registered in the National Codex the manufacturer is supplied with special stamps, to be affixed to each package of his preparation, and bearing its registration number. The presence of this stamp on a preparation is therefore intended to assure the individual pharmacist of compliance with the legal requirements, and of control by his organisation, thus relieving him of any doubt as to his responsibility in supplying it. In fact, the National Codex is a form of self-government in the profession with regard to the sale of all pharmaceutical products, as its scope is not limited solely to the censorship of specialities. As regards the latter aspect of its application, its *raison d'être* has been seriously undermined by the recent royal decree requiring the complete qualitative disclosure of all the constituents entering into the composition of pharmaceutical specialities, which must appear on the label, etc., the amount of any heroic drug which may be present being required to be stated.

Drug Cultivation in India.

SINCE we last referred to the cultivation of drugs in India the Drug Manufacture Committee, which was formed, at the instance of the Indian Board of Scientific Advice, over two years ago, has issued its first annual report dealing with the work accomplished in the first active year of its existence. It may be recalled that at its first meeting, in May 1919, the following, among other recommendations, were agreed to:

(1) That the main investigations be carried out in medical store depôts; (2) that a research laboratory be established in the medical store depôt, Madras; (3) that it would be necessary to establish an institute for the physiological standardisation of the active principles of drugs; and (4) that

the *personnel* of the botanical survey of India be increased by the immediate addition of three botanists with British University degrees and three Indian assistants to investigate the distribution of medicinal plants. The Committee recognised that until the suggested addition is made little advance could take place. The Committee also recorded their opinion that the value of indigenous drugs not included in the British Pharmacopœia should be investigated, but recognised that this could not be done until the suggested institute had been established.

It is now hoped that by the beginning of 1921 the Calcutta School of Tropical Medicine will be in a position to undertake the investigation of the therapeutic efficiency of drugs and standardisation of their active principles. If the proposals for the establishment of a School of Tropical Medicine in Bombay mature it will be possible to have similar investigation carried on in Bombay. The strengthening of the botanical survey was under consideration of the Revenue and Agricultural Department in May 1920, when the Committee's first report was written. The Committee have taken over the reports and files of the Indigenous Drugs Committee, which has been dissolved. Among the work carried out during the year, the report of the Government Cinchona Plantation in Bengal disclosed the fact that ipecacuanha and digitalis are successfully grown in large quantities at Mungpoo. Lycopodium occurs naturally, and spores have been collected and supplied to the Medical Store Department and private firms. Advice was given to applicants as to the cultivation of medicinal plants in Bollaram, Bhawanipur, and Assam, and in several cases as to the source from which medicinal plants could be obtained, etc. The State of Sikkim inquired whether it would be possible for a Commission to visit the State and advise regarding the development of its resources in plants, minerals, and mineral waters. Samples of glycerin made by the Hind Candle Co., Bombay, and the North-West Soap Co., Calcutta, have, on examination, been found to be of high quality. Substitutes for quinine used in Bihar have been examined. Lieut.-Col. Vaughan's treatment of malaria with infusion and liquid extract made from *Vitex peduncularis* found in Ranchi district has been before the Committee, who have asked for proposals as to how his investigation might be assisted. Among the medicinal plants for which search is being made in Kashmir, Ladakham, and Baluchistan is *Artemisia maritima*, the source of santonin. Hitherto the sole source of supply has been Russian Turkestan, but its recognition in India or neighbouring countries would be a valuable discovery. The possibility of producing by electrolytic methods a relatively stable hypochlorite solution to replace bleaching powder for the sterilisation of drinking-water has been investigated, and the report of the progress made is encouraging. Samples of tincture of digitalis made from Darjeeling and Ootacamund leaf were examined, and while the colorimetric test showed both to be of equal strength, the test by physiological methods carried out at Cambridge showed the Darjeeling tincture to be of good therapeutic value, while the value of the Ootacamund tincture was doubtful.

Smith, Stanistreet & Co., Ltd., of Calcutta, brought before the Committee the fact that, having during the war taken up the manufacture of numerous drugs from indigenous sources, they find that the fall in prices of several European products has made it impossible for them to continue the export trade which they had established during the war, but they still maintain a successful trade both in India and abroad in podophyllin resin, caffeine, and strychnine. They refer to three difficulties in establishing an export trade from India: first, careless collection and adulteration; second, competition by Indian speculators (often quite ignorant of the articles in which they deal) forcing the price up to a point where export is impossible; and third, the cost of carriage over long journeys both by land and sea before the goods reach the European market. They consider that in the case of many articles made by them during the war it will be impossible to establish a permanent trade, and suggest that Government might help private enterprise by a duty on imported products which can be made in India, and that where Indian products can be sold at reasonable rates Government should not manufacture such in medical store depôts, but should purchase from private firms.

It appears from the report that orders were placed with the firm for five of their products, but in other cases their prices were too high to justify the placing of orders. The company have obtained a concession from the Kashmir State for the exportation of podophyllin, which will permit them to supply all India's requirements and provide a large surplus for export. The Committee conclude with a lengthy list of articles in which Government requirements are derived wholly or in part from India, and express the opinion that until the botanical survey is strengthened and the scheme for Schools of Tropical Medicine at Calcutta and Bombay mature, much systematic progress cannot be expected. When the schools are fully equipped and staffed it will be for consideration whether investigation of drugs from the purely chemical standpoint should not be handed over to those institutions, leaving to the chemists of Government medical store depôts the extraction in bulk of the active principles already approved and standardised by the technical staff of the schools.

Scottish Poisoning Statistics.

The sixty-fifth annual report of the Registrar-General for Scotland, covering the year 1919, contains the following statistics of accidental and suicidal poisoning fatalities: *Accidental*—Ammonia, 2; belladonna, 1; carbolic acid, 5; carbon bisulphide, 1; hydrochloric acid, 2; Jeyes' Fluid, 1; mercury perchloride, 1; opium and morphine, 2; [potassium?] bromide, 1; strychnine, 2; kind not stated, 1; total, 19. *Suicidal*—Carbolic acid, 3; cocaine, 1; cresol, 1; hydrocyanic acid, 2; opium and laudanum, 3; potassium cyanide, 1; kind not stated, 1; total, 12. On comparing the totals with those for the previous year (*C. & D.*, I., 1920, p. 710), it will be noticed that the suicides show a considerable rise; but the year 1918 was abnormally low in this respect, and the present year's figures are below the average for the last ten years (15.5). It is worthy of mention that of the six suicides tabled in 1918 only one was that of a man, while the male sex accounts for eight of the twelve in last year's record. The figures for opium and its preparations remain far below the respective averages for the thirty-five years 1882-1916 inclusive (21.5 and 8.2); but those for carbolic acid approximate to the corresponding figures (5.1 and 3.7). (These and other averages were given in The Chemist and Druggist, I., 1920, p. 896.) The population of Scotland at the middle of the year under review is estimated at 4,894,077; the death-rate was 15.35 per thousand (0.1 less than the mean of those of the preceding ten years); and the total number of suicides was 234—the highest since 1915. Among facts of general interest commented upon in the report is the large number of deaths from cancer—5,657, which is 444 more than the average for the preceding ten years, and the largest number registered in Scotland in any one year. The Registrar-General adds: "In the earlier years of registration the phthisis death-rate was several times as large as the cancer death-rate . . . 1913 was the first year in which the cancer death-rate was the higher, and the same has occurred in each subsequent year, 1915 excepted, when the two rates were of the same amount."

Reorganising Pharmacy.

In response to our invitation for suggestions as to the kind of organisation that should be set up in the Drug-trade to deal with political matters of a trade nature, we have received several more suggestions. These and kindred matters are dealt with in this section.

The Society's Scheme.

As we mentioned last week, a scheme for amalgamating the Local Associations Executive, the Chemists' Defence Association, and the Proprietary Articles Trade Association was adopted at the special meeting of the Council of the Pharmaceutical Society. The scheme did not reach us in time for inclusion in our last issue, but we have reason to believe that the delay was unavoidable. The first part of the scheme is the report of the Committee of the Council appointed to consider the Test Case decision. After enumerating the terms of reference (*C. & D.*, November 6, p. 72), this report continues as follows :

The Committee are of opinion—

(1) That the injunction clearly restrains the Society from :

(*a*) The regulation of the hours of business of members.

(*b*) The regulation of the wages and conditions of employment as between employers and their employees.

(*c*) The regulation of the prices at which members shall sell their goods.

(*d*) The exercise of the functions of an employers' association.

(*e*) Insuring and effecting insurance of members of the Society against errors, neglect, and misconduct of employees, and against fire, burglary, damage to plate glass, and generally against insurable risks.

(2) That the Society may not act as a trade union, and that it can neither do any of these things directly nor can it subscribe from its funds to any body such as an Industrial Council.

(3) That the Judge has specifically said that there can be no legal objection to the Society undertaking :

(*f*) To audit accounts, collect debts, and take stock for its members.

(*g*) To provide and maintain an employment register and a register of unsatisfactory employees.

(*h*) To provide and supply information as to the commercial standing of persons and firms with whom members of the Society wish to transact business.

(*i*) To provide legal advice to members.

(4) That it is clear that the following matters are not prohibited by the injunction :

School of Pharmacy, Museums, Library.

Benevolent Fund and examinations.

Prosecutions under the Pharmacy Acts.

Publication of Register, Calendar, Codex, Journal, and the Society's other publications.

The conditions pertaining to pharmacy in the public services (*e.g.*, Army and Navy).

Pharmacopæia revision.

Negotiations with Government Departments relating to the Society's functions as stated in paragraph 5 (*a* to *f*).

The promotion of or opposition to legislation affecting any of its objects.

The organisation of its members, including employers and employees, into local branches strictly for the purposes of the Society's own functions.

(5) That if pharmacists desire an organisation to carry out the functions of a trade union, some other body must be reconstituted or a new body created. The fundamental objects of the Pharmaceutical Society and of such a new body respectively are set out as follows :

Pharmaceutical Society.	Trade Organisation.
(*a*) Advancement of chemistry and pharmacy as science and art.	The regulation of—
(*b*) Education of those who should practise chemistry and pharmacy.	(*a*) the relation between employees and employers, or
(*c*) Benevolence.	(*b*) between employers and employers, or
(*d*) Anything that affects the qualification, functions, or privileges which are, or should be, restricted to pharmacists.	(*c*) the imposing of restrictive conditions on the conduct of any trade or business,
(*e*) Administration, including examination and registration under the Pharmacy Acts.	(*d*) the provision of benefits to members, and
(*f*) Protection, other than as above, of those carrying on business on their own account.	(*e*) matters generally affecting the trading interests of pharmacists carrying on business as such as distinguished from functions restricted by law to pharmacists.

(6) That the above appear to be the principles to be applied in deciding what are to be the proper functions of the two bodies.

The Position of the Society

in regard to the Committee's Terms of Reference.

First Term of Reference.

The Committee are of opinion that the judgment does not make clear the question of negotiations connected with National Health Insurance. In so far as National Health Insurance matters affect the status, privileges or functions of the pharmacist, clearly they are within the Society's purview, but it may be that the negotiations as to the remuneration and conditions and the price-checking of prescriptions dispensed under the Insurance Act are matters outside the Society's functions. The judgment will, however, prevent :

(*a*) The Society continuing its proceedings for the establishment of an Industrial Council.

(*b*) The Society interfering in the regulation of wages, conditions of employment, price-maintenance, or other conditions imposed upon the conduct of the trade or business of a chemist and druggist, excepting where the qualification, functions, or privileges which are, or should be, restricted to pharmacists, are concerned.

Second Term of Reference.

Assuming that a new national trade organisation is to be established, the Committee are of opinion that it is essential that, as far as possible, the fields of operation which the new organisation and the Society are respectively to occupy should be well defined, and every effort made to avoid dual control and divided counsels. The Committee consider that if the new organisation complies with the conditions set out later on it would be expedient in the interests of pharmacy generally, that, in addition to the new organisation undertaking, the matters which clearly the Society is not entitled in law to undertake, other work at present carried on by the Society, or which in the absence of such an injunction it might have carried on in future, should be relegated to the new body.

The Committee are of opinion that, subject to the reservation that if anything involving the qualification, functions or privileges of pharmacists arises the Society must reserve the right to intervene, the following are included among matters which it would be appropriate to hand over to the new organisation :

(*a*) National Health Insurance negotiations and the Checking Bureau.

(*b*) The objects (*f*), (*g*), (*h*), and (*i*) referred to in the Statement of Claim and set out in paragraph (3) above.

(*c*) Negotiations with the Government Departments affecting pharmacists as traders—*e.g.*, taxation, shop hours, and such Acts of Parliament as Sale of Food and Drugs Act, Trade-marks Act, freights, municipal trading, duty on spirits, etc.

Third Term of Reference.

The Committee advise that the new body should comply with the following conditions :

(1) That it should be national, covering England and Wales, and, if possible, Scotland.

(2) That its membership should be open to every pharmacist, either carrying on the business of a chemist and druggist for himself, or as a director of a corporate body carrying on the business in accordance with the provisions of the Pharmacy Acts, who shall pay a direct subscription to the organisation.

(3) That it should include provisions for including in its constitution, or for joint action with, the Company Chemists' Association in regard to all matters affecting the trade interests of pharmacy.

(4) That the Society should be assured that the experience and machinery of the L.A.E. organisation should, as far as possible, be utilised, and that the objects of the Chemists' Defence Association and the Proprietary Articles Trade Association should be considered with a view to avoiding clashing of interests.

(5) That there should be as much amalgamation as possible and every safeguard provided against the creation of rival organisations whose functions overlap.

(6) That there should be an understanding between the new body and the Society as to the respective functions which each would perform.

(7) Provision of opportunity for taking counsel together.

A Pharmaceutical Union.

Attached to the report is the following draft constitution and rules of the Pharmaceutical Union :

Title.—The title of the organisation to be "The Pharmaceutical Union"; sub-title, "A Union of Retail Employer Pharmacists for the Protection of Trade Interests."

Constitution.—The Union shall consist of members paying a direct inclusive subscription, who shall be grouped through local Committees in electoral groups or divisions.

Objects.—(1) To exercise all or any of the functions of a trade union or employers' association of persons who carry on the business of chemists and druggists on their own account either alone or in partnership, and of joint-stock companies lawfully carrying on those businesses, and to do all things necessary for the protection of those carrying on the said businesses, and in particular to take measures to regulate the hours of business of persons and companies carrying on those businesses; to regulate wages and conditions of employment as between masters and servants in the said business; to regulate the prices at and the conditions under which chemists and druggists shall sell their goods; the provision of benefits (sick and other) for members; the imposition of restrictive conditions on the conduct of the business of a chemist and druggist and the doing of all things likely to be conducive to the interests of chemists and druggists, and to maintain and promote for the drug trade or industry an industrial council, trade board, or other similar organisation, and to secure representation of chemists and druggists thereon.

(2) To act as a representative organisation of pharmaceutical chemists and chemists and druggists in all matters coming under the National Insurance Acts or any statutory amendment, extension or re-enactment thereof, and in connection therewith to check prices, audit accounts, price prescriptions, conduct negotiations, collect information, give advice, enter into agreements with local committees for doing all or any of the above, and generally to do all things necessary to preserve and promote the interests of chemists and druggists in connection therewith.

(3) To provide and maintain an employment register and a register of unsatisfactory or undesirable employees.

(4) To act generally as a representative organisation of pharmaceutical chemists and chemists and druggists in all matters connected with the trade.

(5) To protect the members of the Union against all persons whose characters or circumstances render them unworthy of mercantile credit, and to facilitate the prompt and economical realisation of the estates of bankrupts and persons making or seeking to make arrangements or compositions with their creditors.

(6) To diffuse information as to sound principles of trading, and to impress upon the mercantile community the necessity of maintaining an intimate knowledge of the state of their affairs by periodical investigations and by keeping correct sets of business books.

(7) To procure information for members as to the standing and responsibility of parties with whom they intend to, or may, transact business.

(8) To concert with Chambers of Commerce and other mercantile and public bodies throughout the United Kingdom and promote measures for the protection of trade and traders.

(9) To originate and support, oppose, consider, and criticise alterations or improvements proposed or enacted in the commercial or other laws (including regulations and by-laws) affecting members of the Union in connection with their businesses.

(10) To promote and assist in the formation of local or branch associations, whether incorporated or not, having objects altogether or in part similar to those of this Union, and to co-operate with such local or branch associations in fulfilling those objects.

(11) To subscribe to, become a member of, and co-operate with any other association or similar body, whether incorporated or not, whose objects are altogether or in part similar to those of this Union, and to procure from and communicate to any such association such information as may be likely to forward the objects of this Union.

(12) To borrow, or raise, or secure the payment of money in such manner as the Union shall think fit, and in particular by the issue of debentures or debenture stock, perpetual or otherwise, charged upon all or any of the Union's property (both present and future), including its uncalled capital.

(13) To sell, improve, manage, develop, exchange, lease, mortgage, dispose of, turn to account, or otherwise deal with all or any part of the property and rights of the Union.

(14) To do all such other things as are incidental or conducive to the attainment of the above objects.

Membership.—The membership to be confined to persons, firms, and bodies corporate keeping open shop for the sale of poisons under the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908; a qualified pharmacist who is a director of a limited company carrying on business under the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, to be eligible for membership. Membership of the Union to include membership of the Chemists' Defence Association and the Proprietary Articles Trade Association.

Executive Committee.—A Central Executive to be appointed to manage the affairs of the Union. The Central Executive Committee shall consist of not more than twenty-one members, to be elected by ballot, not more than three from each electoral section of the Union. The Central Executive Committee shall constitute itself as a sub-committee, and the Company Chemists' Association may nominate alternative representatives for the purpose of dealing with wages and hours of labour.

Divisions or Electoral Groups.—Local Committees to be grouped in electoral sections or divisions. Seven electoral sections to be formed in England and Wales, and one section for the representation of the Company Chemists' Association, the members of which shall vote in that section only.

Local Committees.—The employee pharmacists of the Pharmaceutical Committees, acting as a local Employer Pharmacists' Committee, to be the local unit of organisation.

Subscription.—(1) An inclusive membership fee of 30*s.* to be paid by members in respect of each shop if the member carries on business in an area in the checking bureau scheme, an additional 10*s.* to be paid if not in such an area, or not on the N.H.I. panel.

(2) The subscription of 30*s.* to include the subscriptions for the P.A.T.A. and the C.D.A. insurance benefits of 200*l.* indemnity and of 10*l.* defence, an inclusive subscription of 2*l.* 2*s.* to provide the higher C.D.A. insurance benefits of 500*l.* and 20*l.* respectively; but in the case of members not on the N.H.I. panel or in an area not in the checking bureau scheme, the inclusive subscription for the higher C.D.A. benefit to be 2*l.* 12*s.*

(3) The membership-fee shall be paid in respect of each shop controlled or owned by persons, firms, or bodies corporate owning more than one shop.

Voting Power.—A subscription to be payable in respect of each shop, and every such shop to carry one vote. One employer pharmacist only shall cast all the votes on behalf of his firm.

Cost of Organisation to the Chemist.

Panel Chemist (23/11) writes : The scheme for the so-called amalgamation between a limited liability company and a price-checking bureau invites one to look into costs and profits. London, I believe, pays to the price-checking bureau 500*l.* per annum for a 10-per-cent. check. Some think that check is dear at any price; but chemists should not forget that it provided profits for organisation, and that every one of the 700 chemists on the

Insurance panels contributed his quota, whether he wanted to or not. A definite subscription would compel us to make a business contract and exact value for money. The same principle applies to every chemist on the panel, and, in order to equalise costs, the non-panel man is asked to pay 10*s*. more than the panel man, though he will not get one pennyworth more work done. The only excuse can be that the money deducted from the panel chemist's accounts is to be treated as part of a subscription, and as the 10*s*. has, presumably, been worked out by our financial experts, it means that the average profit made out of panel chemists has been 10*s*. per chemist. There are about 4,000 chemists' accounts in the deal, and this will give us 2,000*l*. profit. In addition, there are the Pharmaceutical Committee's expenses, and in my case they deduct 2½ per cent., and our area is not in the checking bureau, because we pay to have a real check and not a 10 per cent. one.

Supposing I accept the new dispensation and continue my present membership of pharmaceutical institutions, my disbursements will be as follows: Subscription to Pharmaceutical Society, 1*l*. 11*s*. 6*d*.; The Chemist and Druggist, 1*l*.; local Association, 7*s*. 6*d*.; price list, 5*s*.; Metropolitan Federation, 1*s*.; Chemists' Defence Association, 1*l*. 10*s*.; P.A.T.A., 7*s*. 6*d*.; Benevolent Fund, 1*l*. 1*s*.; Orphan Fund, 5*s*.; new union, 1*l*. 2*s*. 6*d*. Deduction from my account, 5*l*. 15*s*.; which makes a grand total of 13*l*. 6*s*. Now I consider that I do not get adequate return for my outlay, and, as a business man, I shall be compelled to cut off my non-productive investments. I consider that 5*l*. subscription should easily cover all my requirements, and my loyalty too, though from this sum I should consider the charitable contributions extra. If our committee were in the checking bureau, the suggested Union would take from me: Checking, 10 per cent., 1*l*. 5*s*.; Chemists' Defence Association, 1*s*. 10*s*.; P.A.T.A., 7*s*. 6*d*.; direct subscription, 12*s*. 6*d*.; making a total of 3*l*. 14*s*. The question arises, shall I get full value? The answer must be clearly in the negative. Since our area is not in the checking bureau, I shall have the honour of paying another 10*s*. per annum. In my case that honour will be declined. The cost of an *ad hoc* body in Scotland is: Subscription to Federation, including insurance benefits greater than paid by the C.D.A., and local branch subscription, which may be increased from local needs, if thought fit, is 1*l*. 1*s*. Add to that the necessary subscriptions to the Pharmaceutical Society, The Chemist and Druggist, and Price List, 2*l*. 16*s*. 6*d*. or 3*l*. 17*s*. 6*d*., or including the P.A.T.A. and Benevolent Fund, 5*l*. 11*s*. My Pharmaceutical Committee expenses are extra, but so long as the work is done efficiently I am not disposed to cavil at that. In any case, I am not likely to accept further claims from any body until I know that it is going to do the work cheaper, and, to my mind, more efficiently. In Scotland, including ½ per cent. for the Standing Committee on Insurance, they would meet all requirements for the sum of 7*l*. 1*s*., including benevolence, while in England I must pay 13*l*. 6*s*. for the same benefits. Clearly an injustice to "Southrons."

Business Changes.

Mr. John Amos, chemist and druggist, has opened a business at Rhos, Wrexham.

Mr. D. Milnes, Lane Head Pharmacy, Brighouse, has converted his business into a limited company, of which Mr. W. Lister, chemist and druggist, Halifax, becomes one of the directors. The business will be carried on under the style of Milnes & Lister, Ltd.

A Caricature.—A correspondent has forwarded us a cutting from "The Saturday Journal" containing a cartoon wherein a "liverish chemist" holds up a double chest-protector (apparently a No. 2 size) in front of a corpulent customer. The chemist, whose features may conceivably have been sketched from life—but let us hope not!—is saying: "Small? My *dear* sir—this is a chest-protector, not a jumper!"

Festivities.

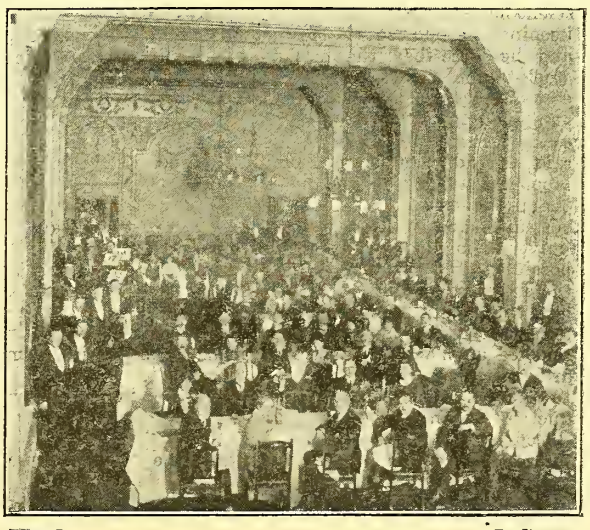
Sheffield Chemists' Whist-drive.

The Sheffield Pharmaceutical and Chemical Society held a concert and whist drive, as the opening social event of the session, on November 18. The President (Mr. E. Preston) and Mrs. Preston received the guests. The concert was opened by a selection by Mrs. T. F. Burdekin. The other artists who contributed were the Misses L. Antcliffe, Doris Lee, Messrs. J. C. Rapley, Wilson, and the secretary, Mr. H. B. Hammond. The whist-drive prize-winners were: Mr., Mrs., and Miss Medley, who took a first, second, and third prize (one of the local wits thought it was a "Medley" affair). Mrs. C. H. Hewitt also secured a prize. The awards were the gifts of Messrs. E. Preston, H. Bown, Geo. Squire, H. G. Williams, Ayrton, Saunders & Co., Ltd., and Zenobia, Ltd.

Tokens of Good Will.

On November 20 the staff and a few friends of Wigglesworth, Ltd., Westhoughton, were entertained by the directors to tea and a social evening in the largest hall in the district. The happy relationship between employers and employees was abundantly manifested throughout the proceedings. Miss Isherwood, who has been on the staff for upwards of twelve years, effectively expressed the sentiments of her colleagues when, in presenting Mr. Wigglesworth with a silver coffee-service (subscribed to by every one in the company, and an illuminated address (the work of one of the staff), she spoke of the admiration, regard, and affection in which he was held by all. Her pithy description of an episode of twelve years ago, when the first gross order was safely consigned, with the assistance of the wives of the present directors, was an effective reminder of the growth of the "Wigglesworth Way" from a staff of three to one of a hundred and seventy. Mr. Wigglesworth, despite the embarrassment of the surprise, acknowledged the gifts and the sentiment they symbolised in a characteristic manner. He claimed that the encouragement and assistance he had received from his co-directors, together with the loyalty of the staff, were two of the chief causes of the present flourishing condition of the business. In response to a vote of thanks, Mr. Taylor and Mr. Rigby (directors) made speeches of happy appreciation. Competitions and an excellent musical programme followed. After supper, dancing concluded a very happy evening.

The Post-Conference Dinner.



Photo] [*R. Brown.*

Flashlight Photograph taken at Liverpool, November 17.

Associations' Winter Session.

Dublin.—The Dublin and Provincial Retail Drug Association held a meeting of the Committee on November 10, Mr. A. Owen Wells (President) in the chair. The following were also present: Messrs. W. F. Ellis, R. E. Campbell, John Smith, D. M. Watson, W. Hopkins Ashmore, Victor E. Hanna, G. A. McLean Lee, and Mr. R. J. Kidney. The attendance included the following visitors from Ulster: Messrs. Wm. J. Hardy, J. C. Culbert, F. Storey, and H. Lancashire, when the question of closer co-operation was discussed and favourably received. It was decided that the proposals of the Ulster delegates be considered at a special meeting of the Committee. Correspondence was received and dealt with from the following: The Ulster Retail Drug Trade Association, Messrs. R. Maloney (Tipperary), G. H. Batt (Dublin), J. Blair & Son (Cork), M. J. Corbett (Gort), Hadden's Medical Hall, Wexford; Michael Condon, Knocklong; Keane's Drug-stores, Kilkenny; and R. White (Dublin). The following new members were elected: Messrs. J. Maguire, 76 Talbot Street, Dublin; and C. J. Fitzgerald, Kilkee, co. Clare.

Edinburgh.—A meeting of the Edinburgh branch of the Scottish Pharmaceutical Federation was held on November 4, Mr. J. T. Coats (President) in the chair, when Mr. William Oliver, B.Sc., A.M.I.C.E., Lecturer on Industry and Commerce for the Bachelor of Commerce Degree in the University of Edinburgh, gave an address on *Science in the Sphere of Industry and Commerce*. Mr. Oliver prefaced his remarks by showing that although this country has, in the past, lacked a good system of education which he described as the foundation of all scientific study, the premier position that Britain holds is due very largely to this fact. The improved status of the trained research worker in the opinion of the manufacturers was next dwelt upon, Mr. Oswald describing what is being done in bringing science to the aid of business and what is still essential. He advocated closer co-operation between individual manufacturers, and gave some poignant reasons. He also spoke in favour of publicity as a means of stimulating the provision of funds for research work on a large scale. To neutralise the effect of increased wages and costs of production, the methods of working and administration must be improved. An important point is that every business is a law to itself in regard to systematic organisation, and a ready-made system is therefore not applicable to all businesses. In order successfully to undertake the reorganisation of a business, its particular needs must clearly be understood. The speaker emphasised the importance of good buying, which means, he said, half the sale of the article, good buying being, of course, scientific buying, which he described in detail. Stock-keeping, he showed, is also of the greatest importance, and he described the method of eliminating physical stock-taking except at rare intervals. The importance of cost accounts is not thoroughly appreciated. Mr. Oliver explained the method of arriving at the correct value of establishment charges. After the prime cost which, he said, is readily understood by all, he proceeded to explain labour costs, which are more complicated. The larger the undertaking the more pressing the need for cost accounts, and written records and instructions are the universal media, without which control is practically impossible. He referred to the disorganisation caused by the sudden departure of members of the staff, and showed how this would be eliminated by means of proper written instructions for the new-comer. An interesting point touched upon was the fact that, in many industries, firms are restricting the range of products with good results to themselves and the national need for increased production. Staff control and the methods now being introduced for finding the right job for the worker was another interesting section treated in detail, the speaker giving examples of some of the psychological tests applied to ascertain the candidate's powers of memory, attention, intelligence, perception of space, rapidity of movement, and reaction time. He indicated also the importance of defining clearly the scope of duties, omission to do so causing much personal irritation and inefficiency. Scientific management as understood in America, he showed, is not suitable for application in this country, owing to the preponderance of skilled craftsmen in this country. The British worker, he reminded his audience, is a very independent person. To combat the possible dangers of over-production, which, he said, was a long way off, a preliminary step is to extend foreign markets and study local requirements: the latter proceeding had been much neglected in the past. The publicity specialist is needed also, as well as the aid of chambers of commerce and commercial attachés abroad. It is only by endeavouring to place goods and services at the disposal of an ever-widening circle of customers that decreased unemployment and the fullest possible output can be hoped for. An interesting discussion followed. The next function of the Edinburgh branch of the Federation is on December 1, when a dinner in conjunction with the Edinburgh Chemists' Golf Club will be held in the Caledonian Hotel. One hundred guests are expected to be present from different parts of Scotland.

Surrey.—The County of Surrey Association of Pharmacists held the annual meeting on November 17, Mr. Noble (Wallington) presiding. The report and balance sheet were adopted. The following officers were elected for the ensuing year: Mr. J. H. Price-Bond (Merton), *Chairman*; Mr. W. M. Tims (Cobham), *Vice-Chairman*; Mr. W. H. Fowler (Redhill), *Treasurer* and *Secretary*. The meeting approved of the scheme drawn up by the Local Associations Executive as the minimum basis for negotiations with the Ministry of Health.

Walthamstow.—A meeting of the Walthamstow Pharmaceutical Association was held on November 17, Mr. G. F. Deeth (Vice-President) in the chair. Replies to the letter protesting against the Proprietary Medicines Bill, which was sent to the local members of Parliament, were read from Sir Stanley Johnson, M.P. (Walthamstow), Colonel B. B. Colvin, M.P. (Epping), and A. E. Newbould, M.P. (Leyton); the latter mentioned that his grandfather was a chemist who "not only had an extensive business, but actually visited patients at their homes daily. It was decided to send a letter to the Medical Officer of Health and to the proprietors of "Glaxo" protesting against the indiscriminate sale of "Glaxo" at the Walthamstow Clinic. "Glaxo" could be purchased for 2*s.* 4*d.* in bags equivalent to the 3*s.*-size tin, by anyone without any questions being asked. Members of the Association did not wish to interfere with the sale of Glaxo to any deserving cases, but they thought some restriction should be placed on the sale to persons who could afford to purchase in the ordinary way. Mr. W. E. Swanston, the late secretary, was then presented with a case of pipes and a tobacco-pouch by Mr. A. M. Brown, the President, on behalf of the members, as an acknowledgment of his services rendered to the Association while secretary. Mr. W. Gray, chemist and druggist, F.S.M.C., afterwards gave a paper on *Sight-Testing*, illustrated with a large model of the eye and excellent diagrams.

West Ham.—A meeting of the West Ham Association of Pharmacists was held on November 18, Mr. E. N. Lloyd (President) in the chair. A discussion on the Test Case ensued, Messrs. Catto, Pratt, Potter, and Thompson taking part. Mr. Skues (South-West Pharmacists' Association) then addressed the meeting, first referring to the proposed formation of an employers' trade union, and congratulating the assistants on the success of their organisation. He next spoke of stock-keeping and stocktaking, and gave a detailed account of what he considered the best method of keeping stock, outlining also a system for stocktaking. Mr. Potter then gave a report on the complaint alleging inconvenience to Insurance patients as a result of the hours of service. In his opinion the hours were already sufficiently long. The President agreed, and pointed out that the service given in West Ham is already longer than that of any other area in London, and that the doctors should in some cases open their surgeries one hour earlier.

West Midland Federation.

A meeting of the West Midland Federation was held at Worcester on November 18, members attending from the following Associations: Worcester City and County, Birmingham, Staffordshire, Warwickshire, and Wolverhampton. Before the meeting tea was provided by the Worcester Association. Mr. H. O. Lloyd occupied the chair, and introduced Mr. Moreton Parry (Council of the Pharmaceutical Society), who addressed the meeting. Mr. Parry reviewed the recently passed by-laws, the Proprietary Medicines Bill, and the proposals for the formation of a Pharmaceutical Union. He showed the advantages likely to accrue from the greater control over education and training in pharmacy, and detailed the revisions the Society suggested should be made in the Dangerous Drugs Bill and the Proprietary Medicines Bill. He also outlined the reorganisation scheme suggested to meet the position created by the judgment in the recent Test Case. A discussion followed, and approval of the scheme and of the Council's actions was expressed. Mr. Lloyd appealed to the Associations on behalf of the Benevolent Fund, asking that special officers be appointed and special efforts engaged in to assist this most deserving institution.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bury.—The Pharmaceutical Committee has published a statement of accounts showing that in July 4,058 scripts were issued, value 200*l.* 18*s.*, average cost 12.05*d.*; in August, 3,557 were issued, value 183*l.* 13*s.* 1*d.*, average cost 12.39*d.*; and during September 4,137 were issued, value 201*l.* 15*s.*, average cost 11.7*d.* A statement of the Drug Fund as finally constituted for 1919 was also presented. The total amount paid into the Drug Fund for the year amounted to 2,857*l.* 14*s.* 10*d.*, of which 1,644*l.* 17*s.* was paid to the chemists, 613*l.* 6*s.* 9*d.* being carried to the Drug Fund for 1920.

London.—The Insurance Committee met on November 25 to consider, among other business, the reports of the various sub-committees. The following is taken from the agenda: The Joint Services Sub-Committee reported two complaints involving chemists. The first was that an insured person was unable to obtain medicine from a chemist (now deceased). The manager of the pharmacy and the practitioner were interviewed, and the Committee decided that the charge was not substantiated. In the second case, a chemist had alleged that a doctor was instructing patients not to obtain medicine from his shop. A counter-allegation was made that the chemist had endeavoured to induce insured persons to transfer to another doctor. As both parties agreed to observe the regulations in future, no further action was taken. The Medical Benefit Sub-Committee reported that the number of chemists on the list of persons supplying drugs and appliances was constituted on October 31 as follows: Chemists in general business, 661; in institutions, 37; other persons, 24. Five names had been added to the list, and there had been five withdrawals. In the statement of accounts presented by the Finance Sub-Committee is included the sum of 14,710*l.* 2*s.* 4*d.* paid to chemists from the Drug Fund. The cost of drugs under the Special Arrangements Fund amounted to 50*l.* 14*s.* 5*d.*

November Drug Tariff.

The following are the alterations for November in the Drug Tariff for England and Wales issued by the Ministry of Health.

Lower.—Acetanilidum, 5½*d.* oz.; acid. acetic., 10½*d.* lb.; acid. acetylsal., 7*d.* oz.; acid. citric. pulv., 5*s.* 7*d.* lb.; acid. phosph. dil., 9*d.* lb.; acid. salicylic., 4*s.* 2*d.* lb.; acid. sulph. aromat., 7*s.* 2*d.* lb.; acid. tannic., 13*s.* 4*d.* lb.; acid. tartaric., 3*s.* 8*d.* lb.; adeps benz., 3*s.* lb.; adeps lanæ, 2*s.* 6*d.* lb.; adeps lanæ hydrosus, 2*s.* lb.; æther, B.P., 0.720, 4*s.* lb.; ammon. benz. (artificial), 1*s.* oz.; ammon. brom., 4*s.* lb.; aq. cinnam. ex conc., 16*s.* 6*d.* lb.; aq. menth. pip. ex conc. (exotic), 14*s.* 6*d.* lb.; argent. nit., 4*s.* 6*d.* oz.; argent. nit. indur., 4*s.* 8*d.* oz.; argent. proteinat, 2*s.* 2*d.* oz.; barbitonum, 2*s.* 8*d.* oz.; bism. subgal., 1*s.* 9*d.* oz.; bism. subnit., 17*s.* 3*d.* lb.; butyl-chloral hyd., 5*s.* 3*d.* oz.; caffeina, 4*s.* 6*d.* oz.; caffein. cit., 3*s.* 4*d.* oz.; camphora (flowers), 12*s.* 4*d.* lb.; chloral hydras, 11½*d.* oz.; chloroform, camph., B.P.C., 13*s.* 9*d.* lb.; cocain. hydrochlor., 5*s.* dr.; codeina, 5*s.* 6*d.* dr.; codein. phosph., 4*s.* 9*d.* dr.; collod. belladon., B.P.C., 1*s.* 2*d.* oz.; collod. flexile meth., 5*s.* 10*d.* lb.; collod. salicylic. co., B.P.C., 11*s.* lb.; copaiba, B.P., 6*s.* 6*d.* lb.; creosot. carb., 3*s.* oz.; creosotum, 1*s.* 1*d.* oz.; dec. cinchon. rub. ex conc., 5*s.* 8*d.* lb.; dec. hæmatox. ex conc., 2*s.* 10*d.* lb.; dec. senegæ ex conc., 9*s.* 6*d.* lb.; emul. olei morrhuæ, B.P.C., 2*s.* lb.; ext. belladon. liq., 1*s.* 3*d.* oz.; ext. casc. sagr. sicc., 11½*d.* oz.; ext. casc. sagr. liq., 3*s.* 4*d.* lb.; ext. cinchonæ liq., 11*s.* lb.; ext. ergotæ, 16*s.* 3*d.* oz.; ext. ergot. liq., 30*s.* lb.; ext. viburn. liq., 15*s.* 4*d.* lb.; ferri et ammon. cit., 6*s.* 8*d.* lb.; ferri et quin. cit., 2*s.* 1*d.* oz.; hexamina, 1*s.* 9*d.* oz.; hydrarg. iod. rubr., 1*s.* 8*d.* oz.; hydrarg. oxid. flav., 9*s.* 10*d.* lb.; hydrarg. perchloridum, 8*s.* 4*d.* lb.; hydrarg. subchlor., 8*s.* 10*d.* lb.; hydrargyrum ammon., 9*s.* 3*d.* lb.; hydrargyrum. c. cretâ, 3*s.* 7*d.* lb.; inf. calumb. ex conc., 2*s.* 5*d.* lb.; inf. cascarill. ex conc., 4*s.* 4*d.* lb.; inf. cinch. acid., ex conc., 6*s.* 2*d.* lb.; inf. ros. acid. ex conc., 4*s.* 6*d.* lb.; inf. senegæ ex conc., 8*s.* 2*d.* lb.; iodum, 1*s.* 10*d.* oz.; lin. aconit. meth., 3*s.* 8*d.* lb.; lin. belladon. meth., 7*s.* 8*d.* lb.; lin. camph., 4*s.* 9*d.* lb.; lin. camph. am. meth., 4*s.* lb.; lin. chlorof., 7*s.* 8*d.* lb.; lin. hydrarg., 6*s.* 8*d.* lb.; lin. methyl. sal. co., B.P.C., 12*s.* 4*d.* lb.; lin. opii meth., 5*s.* 3*d.* lb.; lin. pot. iod. c. sap., 4*s.* 6*d.* lb.; lin. sap. meth., 2*s.* 10*d.* lb.; lin. terebinthinæ, 3*s.* lb.; lin. tereb. acet., 4*s.* 9*d.* lb.; liq. formaldehyd., 4*s.* lb.; liq. opii sed., B.P.C., 9*s.* lb.; liq. picis carbonis, 8*s.* 10*d.* lb.; magnesia pond., 4*s.* lb.; mag. carb. lev., 1*s.* 2*d.* lb.; mag. carb. pond., 1*s.* 7*d.* lb.; menthol, 3*s.* 2*d.* oz.; methyl salicylas, 7*s.* 2*d.* lb.; ol. anisi, 6*d.* oz.; ol. cadini, 3*s.* 10*d.* lb.; ol. cajuput., 7*d.* oz.; ol. lini, 10*s.* 6*d.* gal.; ol. morrhuæ (Norwegian opt.), 18*s.* gal.; ol. tereb. rectif., 3*s.* lb.; oxymel scillæ, 1*s.* 3*d.* lb.; paraldehyd., 7½*d.* oz.; pasta zinci et gelatin., B.P.C., 3*s.* 6*d.* lb.; phenacetin, 1*s.* 9*d.* oz.; phenazone, 1*s.* 11*d.* oz.; pil. saponis co., gr. iv., 1.5*d.* doz.; pot. brom., 3*s.* lb.; pot. cit., 7*s.* 4*d.* lb.; pot. iod., 20*s.* lb.; pot. permang., 5*s.* 3*d.* lb.; pot. tart. acid., 3*s.* lb.; pulv. glycyrrh. co., 2*s.* 2*d.* lb.; pulv. sodæ tart. eff., 13*s.* 8*d.* gro.; quin. hydrochl., 7*s.* oz.; quin. hydrochl. acid., 7*s.* 6*d.* oz.; quin. sulph., 4*s.* 11*d.* oz.; resorcinum, 2*s.* oz.; sacc. lact., 2*s.* 7*d.* lb.; salol, 8½*d.* oz.; sapo mollis, 2*s.* 8*d.* lb.; sodii benz. (artificial), 6*d.* oz.; sodii brom., 4*s.* lb.; sodii et pot. tart., 2*s.* 4*d.* lb.; sodii salicylas (cryst.), 5*s.* 8*d.* lb.; spt. ætheris, 7*s.* lb.; spt. æther. co., 9*s.* 9*d.* lb.; spt. æther. nitrosi, 6*s.* 7*d.* lb.; spt. ammon. aromat., 5*s.* 1*d.* lb.; spt. chlorof., 8*s.* lb.; spt. juniperi, 16*s.* lb.; spt. rectificatus, 22*s.* pint; spt. vini. meth., 11*s.* 9*d.* gal.; succ. scoparii, 3*s.* 10*d.* lb.; succ. tarax., 4*s.* lb.; sulphonal, 4*s.* oz.; tab. acid. acetylsal., gr. v., 1.2*d.* doz.; terebenum, 6*s.* 8*d.* lb.; tr. aconit., 6*s.* lb.; tr. asafet., 10*s.* 6*d.* lb.; tr. aurantii, 21*s.* 9*d.* lb.; tr. belladon., 6*s.* 6*d.* lb.; tr. benzoini co., 7*s.* 5*d.* lb.; tr. camph. co., 4*s.* 7*d.* lb.; tr. cannab. ind., 34*s.* 9*d.* lb.; tr. cantharidini, 9*s.* 4*d.* lb.; tr. capsici, 5*s.* 8*d.* lb.; tr. cardam. co., 4*s.* lb.; tr. catechu, 4*s.* lb.; tr. chlorof. et morph. co., 13*s.* lb.; tr. chlorof. et morph., '85, 4*s.* 7*d.* lb.; tr. cinchon. co., 7*s.* lb.; tr. digitalis, 5*s.* 6*d.* lb.; tr. ferri perchlor., 2*s.* 3*d.* lb.; tr. gelsemii, 6*s.* 6*d.* lb.; tr. gent. co., 4*s.* lb.; tr. guaiaci ammon., 9*s.* 6*d.* lb.; tr. hamamel., 5*s.* 2*d.* lb.; tr. hyoscyami, 7*s.* lb.; tr. iodi fort., 11*s.* lb.; tr. iodi mit., 8*s.* 4*d.* lb.; tr. lavand. co., 8*s.* 3*d.* lb.; tr. lobel. æth., 12*s.* lb.; tr. opii, 6*s.* lb.; tr. opii ammon., 6*s.* lb.; tr. quin. ammon., 5*s.* 6*d.* lb.; tr. rhei co., 4*s.* 7*d.* lb.; tr. scillæ, 5*s.* 4*d.* lb.; tr. strophanth., 9*s.* lb.; tr. valerian. ammon., 7*s.* 4*d.* lb.; tr. zingib., 7*s.* 6*d.* lb.; ung. acid. boric, B.P., 2*s.* 4*d.* lb.; ung. ac. carbol., 2*s.* 8*d.* lb.; ung. ac. salicyl., 2*s.* 10*d.* lb.; ung. bellad., 1*s.* 2*d.* oz.; ung. gallæ c. opio, 7*s.* 4*d.* lb.; ung. hydrarg., 5*s.* lb.; ung. hyd. co., 7*s.* lb.; ung. hyd. nit., 4*s.* 9*d.* lb.; ung. hyd. nit. dil., 2*s.* 10*d.* lb.; ung. hyd. oleat., 5*s.* lb.; ung. hyd. oxid. flav., 2*s.* 4*d.* lb.; ung. hyd. oxid. rubr., 3*s.* lb.; ung. picis liq., 2*s.* 10*d.* lb.; ung. rosinæ, 3*s.* 9*d.* lb.; ung. sulphuris, 3*s.* 2*d.* lb.; ung. zinci, 2*s.* 11*d.* lb. Lints: unmedicated, 1 oz., 4.8*d.*; 2 oz., 9.0*d.*; 4 oz., 17.5*d.*; 8 oz., 32.0*d.*; 1 lb., 60.0*d.*; boric, 1 oz., 3.3*d.*; 2 oz., 6.0*d.*; 4 oz., 11.5*d.*; 8 oz., 21.5*d.*; 1 lb., 39.0*d.* Wools: cotton, 1 oz., 2.1*d.*; 2 oz., 3.8*d.*; 4 oz., 7.8*d.*; 8 oz., 13.5*d.*; 1 lb., 22.0*d.* Oiled cambric, 36.0*d.* sq. yd.

Higher.—Ext. malti, 1*s.* 6*d.* lb.; ext. malti c. ol. morrh., B.P.C., 1*s.* 8*d.* lb.; glycerinum, 2*s.* 4*d.* lb.; pil. podoph. co., B.P.C., 1.5*d.* doz.; pil rhei co., gr. iv., 1.3*d.* doz.; syr. cascaræ aromat., 4*s.* 9*d.* lb.; syr. limonis, 2*s.* 10*d.* lb.; tab. santonin, gr. i., 23.5*d.* doz.; tab. santonin co., B.P.C., 24.0*d.* doz. Bandages: crêpe, 2 in., 18.0*d.*; 2½ in., 21.8*d.*; 3½ in., 29.0*d.*

Early Closing in Australia.

By R. C. Cowley, Ph.C.

The remarks of Mr. W. H. Saunders, Liverpool, on early closing in Australia, at the meeting of the British Pharmaceutical Conference (*C. & D.*, August 14, p. 65), will cause, no doubt, many chemists in the United Kingdom to inquire how it operates. The clamour for shorter hours of labour was persistent for many years before 6 o'clock closing became operative in Brisbane. When I arrived here, twelve years ago, the closing hour had been brought down to 9 p.m. from all kinds of hours, usually fixed by the other fellow closing. Long and serious were the discussions before 8 o'clock closing was decided on, and when that hour was fixed many chemists expressed the opinion that 6 o'clock closing would be the logical result.

Advent of Six o'clock Closing.

For several years before 6 o'clock closing became operative the chemists in the town of Mackay, three in number, one a Friendly Societies Dispensary, had agreed to close at 6 p.m. Some time later the writer visited Mackay, and the chemists expressed themselves delighted with the change. They said they were living now, and their takings over the counter had not fallen. To show the excellent feeling engendered by living in closer contact with their fellows, one chemist would borrow his neighbour's assistant while he went on holiday. This is, of course, exceptional, even in Queensland.

Some two or three years later the desire for earlier closing was more insistently expressed in Brisbane. The urgency of earlier closing was emphasised by the fact that assistants had obtained a new wages award, limiting the hours of labour to forty-eight per week, and making the principal pay overtime at a higher rate for any extension of the hours beyond 6 p.m. A meeting of chemists was called, when a resolution to close at 6 o'clock was put, and, to the surprise of many, it was carried by a large majority of those present. As the law stands in Queensland, chemists' shops are exempted from compulsory 6 o'clock closing, but the Act stipulates that if a majority of proprietors of exempted shops agree to adopt any special hour of closing the hour decided upon shall have the force of an Act of Parliament after the agreement has been published in the Government "Gazette." Most of the important towns in Queensland now adopt the Brisbane hours.

In New South Wales and Victoria a special Act had to be passed before chemists' shops could adopt earlier closing. This has been done recently in both States. The closing hour adopted in New South Wales is 7 o'clock, which does not give universal satisfaction; in Victoria 6 o'clock, which appears to give general satisfaction. In Tasmania 6 o'clock closing has now been operative for some years, and gives satisfaction.

Closing Hours in Brisbane.

On Monday, Tuesday, Wednesday, Thursday, and Friday chemists' shops are closed at 6 o'clock in the evening, and remain closed until 8.30 o'clock on the following morning. On Saturday they are closed from 1 o'clock in the afternoon until 6.30 o'clock in the evening, and are again closed at 8 o'clock in the evening, and remain closed until 7 o'clock on Sunday evening. On Sunday they are only open for one hour, 7 to 8 o'clock, when they are closed until 8.30 on the following morning. On public holidays the same hours as Sunday are worked. On Christmas Eve they close at 10 o'clock in the evening, and remain closed until 7 o'clock the following evening, and on the day preceding Good Friday they close at 9 o'clock and remain closed until 7 o'clock the following evening.

When 8 o'clock closing was adopted in Brisbane, it was felt that some provision should exist for obtaining urgent medicines after that hour. To meet this requirement the chemists of the town formed a company, which was registered under the name of Drysdales, Ltd. The company purchased a chemist's shop in a central position, convenient to the trams, and ran it as a day-and-night pharmacy. After the gazetted hours of closing only urgent medicines can be supplied. This company has paid satisfactory dividends to the shareholders ever since its inception. It has also a wholesale section, which has recently been separated from the retail, and outside capital has been brought in. Under the Pharmacy Act, 1917, companies may in future be formed to carry on in Queensland the business of a pharmaceutical chemist only so long as all the shareholders are registered pharmaceutical chemists. Very few chemists live on the premises in Queensland, and, of course, there is nothing to prevent the few who do from supplying urgent medicines after closing hours.

Disadvantages and Advantages.

On the whole the scheme has worked well, and even those who opposed early closing at first became strong supporters later. There are a few, especially among the younger men, who have commenced business in suburban areas since the scheme was initiated, who take advantage of the "urgent medicines" clause to help to consolidate their business. Though they have been warned by the Chief Inspector of Factories and Shops, it has been found difficult to counteract the evil owing to the difficulty of defining what is an urgent medicine. The advantages are obvious: chemists now "live," they mix with persons following other callings, they are better business men, they find that the volume of business they put through has not diminished, finally they enjoy better health and have more home life. To show how chemists appreciate early hours of closing: during last year, when the influenza epidemic was raging, the Home Secretary approached the Pharmaceutical Society to extend the opening hours of chemists' shops so as to make better provision for obtaining necessary medicines. A meeting of local chemists was called, and they refused, point-blank, to rescind the agreement. They asked the Home Secretary to approach the Minister for Labour to suspend the agreement while the epidemic lasted, which he did. Immediately the epidemic relaxed, they called on the Home Secretary to advise the Minister for Labour to reimpose the 6 o'clock closing agreement. The writer has been impressed by one very outstanding effect of early closing. Whereas at meetings held in the bad old days speakers were verbose, prosy, and tedious to listen to, resulting in a long-drawn-out meeting, now business is concluded in an expeditious manner, and while absolute unanimity cannot always be attained, it is always possible to agree to differ, and good-fellowship prevails.

The majority of medical practitioners welcome early closing of chemists' shops. They say that it relieves them from objectionable night work, as the tendency is for persons who are unwell to postpone calling the doctor in until late in the day. Now they have to call him in early, otherwise they are put to some trouble in obtaining medicine, and they must pay a late fee of one shilling to get it. The majority of medical men do not want evening work any more than the chemist does.

Probably 95 per cent. of the population of Australia is of British origin, and their customs and habit of thought are purely British, no doubt widened considerably by the broad horizons of Australia. If early closing is practicable and advantageous here, it likewise will be in the United Kingdom. The writer has a vivid recollection of the tedious long hours of labour he experienced in his young days in England, the only consolation was that the long hours did not give him the opportunity to squander the microscopic salary then ruling. The war has extended the outlook of the young men, and has even shaken the confidence of the older generations in the past. Early closing will eventuate even in conservative England. It may be that it will be forced on principals by their assistants, as was the case here, but it, nevertheless, will be an established fact before long, and it will be to the advantage of everyone connected with the craft.

A new joint-stock company has been established at Kralup, near Prague, with a capital of four million kronen, for the manufacture of pharmaceutical goods.

Photographic Progress.

At the November meeting of the London Section of the Society of Chemical Industry Sir William J. Pope gave an address, entitled *Photography of Coloured and of Distant Objects*, in which he outlined some of the advances that have been made in photography during the war. The "Journal of the Society of Chemical Industry" published the following account of the President's address:

The ordinary photographic plate is sensitive only to blue and violet light—*i.e.*, to the rays of shorter wave-length in the visual spectrum. When an image of some parti-coloured scene is thrown on to the photographic plate it receives much the same impression as we should obtain on viewing the scene through deep-blue spectacles. This limitation of light-action to a short range of the visual spectrum leads to photographic misrepresentations.

Long experience has led us to see nothing ridiculous in a photograph as such; we instinctively recognise the reproduction as a photograph, and see nothing absurdly anomalous in the manner in which the colours are represented in monotone. A photograph of a patch of primroses shows the bright yellow centre of the flower as black; similarly, a red rose photographs as black, and the deep-blue violet as white. By photographing the visual spectrum on an ordinary plate we can readily obtain a record of the range of wave-lengths of light to which the plate is sensitive. During the early 'seventies it was observed by Vogel, Waterhouse, and others that the incorporation of certain dyestuffs with the sensitive photographic film renders the plate sensitive to light other than blue and violet; thus, erythrosine, rose bengale, and acridine orange extend the sensitiveness of the plate into the green region of the spectrum. Ethyl red, one of the cyanine dyestuffs, was then found to confer sensitiveness even to red light.

The discovery that the photographic plate can be rendered sensitive to comparatively long light-waves was of prime importance, but the extra-sensitiveness conferred was limited and accompanied by other disadvantages, such as liability to fog, and it did not, in consequence, find immediate widespread applications. A really substantial development of the discovery was made by the introduction of an isocyanine dyestuff in 1903 by Meister, Lucius, und Brüning, under the name of pinaverdol; this substance sensitises the photographic plate right through the green and well into the red region of the spectrum. In 1905 the same firm introduced another allied dyestuff, pinacyanol, which sensitises far into the red, although not so well in the green region. Both these dyestuffs are easy to apply to the photographic plate, and their use is not accompanied by the disadvantages of the former sensitisers.

A base is now provided for a successful attack upon two problems. The first is to obtain a correct representation in monotone of coloured objects; and the second to devise satisfactory reproductions in colour or parti-coloured objects. The first object can be attained by rendering the plate sensitive to the entire visual spectrum by the application of pinaverdol and pinacyanol, and interposing a yellowish or greenish coloured filter so as to diminish the amount of blue light which gets through to the plate during exposure.

A plate prepared with the sensitising dyestuffs is described as a "panchromatic" plate, and a series of pictures showing first a photographic reproduction in colour of a scene, and then the monotone reproduction on an ordinary plate, on a panchromatic plate, and, lastly, on a panchromatic plate with the interposition of the colour filter, shows the progress which has been made in photographic representation in monochrome.

The second object, the reproduction of the actual colours, is technically more difficult and has provided a subject for the exhibition of vast ingenuity and skill. In 1861 Clerk Maxwell, when Cavendish Professor in Cambridge, pointed out that by dividing the visual spectrum into three consecutive fractions, making three photographs of the coloured object through light filters corresponding to this sub-division of the spectrum, reproducing the three pictures in appropriate colours, and then superposing the three coloured prints, a photograph in natural colours would result. In due time this observation led to the very beautiful Sanger-Shephard process of colour photography. Another method of attacking the same problem originated with Professor Joly, of Dublin; he prepared a transparent grating ruled with alternate lines of three colours representing the division of the visual spectrum into three parts, and made one negative by exposing the photographic plate with its sensitive surface in contact with the grating. After development a print is made on glass and then bound up in contact with a ruled grating in colours corresponding with those used in preparing the negative. It is obvious that this specific method for producing a photograph in colours is capable of development, principally in the direction of preparing more minutely reticulated gratings; one of the developments of the Joly process consists in the substitution of a three-colour grating in squares for the Joly ruled grating.

Another method for carrying out the spirit of the Joly process may now be mentioned. It is clear that the preparation of the reticulated grating presents technical difficulties. These are overcome in the process devised by the Lumière Brothers by a particular method of construction. Three batches of starch granules are dyed each in one of the three colours corresponding to the triple division of the visual spectrum already referred to; these dyed granules are then thoroughly mixed in appropriate proportions and a single layer of the mixture is squeezed on to the surface of a panchromatic plate. The plate is exposed in the camera to the image of the parti-coloured scene through the pattern of starch granules. The plate is then developed, the deposited silver removed, and the residual silver halide converted into metallic silver; a picture in colours results. As an illustration of the fidelity of colour reproduction possible by the starch granule process, it is noteworthy that it expresses excellently well the interference colours shown by birds and beetles.

We may now turn from these technical applications of sensitising dyestuffs to consider briefly one or two of the purely scientific questions involved. At present we do not know why these substances exert the sensitising action described, but one point can be clearly demonstrated. The silver halogen salt absorbs the dyestuff; this can be shown by precipitating silver bromide from a solution containing the dye. Using a particular sensitiser of the pinaverdol or pinacyanol class we can show that the extra-sensitiveness conferred contains two maxima in the green and red; these maxima are, in individual cases, situated more or less far towards the longer wave-length end of the spectrum. A general relationship exists between the position of these maxima and the two maxima observed in the absorption spectra of the dyes in aqueous solution. When the extra-sensitisation maxima are found furthest towards the red, the absorption spectrum maxima also lie furthest towards the red; the converse is also true. It is to be noted that we do not know the absorption spectra of the silver halide dyed by the sensitiser, but it is very significant that the qualitative relation just noted exists between the sensitising action on the plate and the absorption spectrum of the dye.

We turn next to the chemical constitutions of the chief sensitising dyestuffs. Six years ago the constitutions of pinaverdol and pinacyanol were not known with certainty, but the work of my colleague, Dr. W. H. Mills, and others leaves little doubt as to the accuracy of the constitutional formulas now generally accepted. An inspection of these constitutional formulas indicates the possibility of introducing substituting groups in many positions in the molecule; and during the last few years Dr. Mills and I have prepared some fifty or more substitution products of these two types of compound and have, with some degree of precision, traced the relation between sensitising action and their constitution.

I turn now to my last point. The atmosphere is not penetrated with equal facility by light of all colours, or of all wave-lengths. The rays of short wave-lengths, the

blue and violet, are most readily absorbed and diffused by the air, and, in passing from short to longer wave-lengths, through the green and yellow to the red, the absorptive and diffusing effect of the atmosphere becomes progressively less and less. A simple demonstration of the truth of this statement is presented to us every day. When the sun is high it appears white or bluish-white, and its outline is sharp; but as the sun declines it appears yellow and loses its sharpness of definition. Just before the sun falls below the horizon it is bright red and shows a hazy outline. So that with perpendicular incidence the sun's light reaches us with but little absorption of the blue rays by the short length of atmosphere through which it has to pass. As the sun declines the blue is absorbed by the longer stretch of air, and just at the setting the atmospheric path through which the sun's rays reach us is so long that the blue, green, and yellow are absorbed and diffused and nothing reaches us but the red light. The same thing happens in a fog; if the fog is slight the sun appears yellow and not sharply defined, but if the fog is dense the sun shows red, and its circle is very indistinctly defined.

These facts, based upon common observations, have a very important bearing. If a distant view is photographed on an ordinary plate sensitive only to the blue and violet, absorption and diffusion of the light are considerable; the resulting photograph is thus more or less ill-defined. But since the atmosphere is penetrated to a far greater extent by the red rays, it follows that if a spectroscopically pure red filter is placed between the lens and the object, the resulting photograph will reveal far more detail.

In the air photographic service ordinary plates were used during the early part of the war, but as time went on the ordinary plate became more and more completely replaced by the panchromatic plate. At the armistice about 80 per cent. of the plates used in our air service was panchromatic.

Until the outbreak of war all the sensitising dyestuffs used throughout the world were made by Germany; outside the Central Powers practically no information was available as to the methods of preparation and constitution of these sensitisers, and the outbreak of hostilities found us deprived of sources for these essential materials.

An investigation carried out by Dr. Mills and myself put us in possession of methods of manufacture and of details concerning the constitution of both pinaverdol and pinacyanol, and the whole of the supplies of these two compounds required by the photographic air services of the Allies throughout the war were produced (as sensitol green and sensitol red) in the chemical laboratory of the University of Cambridge.

The production of these substances in this country and the familiarity gained by our technical chemists in dealing with them resulted in very substantial progress being made in panchromatic photography. The best commercial panchromatic plates previously available required about three times the exposure for red as for blue light, but those now available require less exposure for red than for blue. In consequence of this progress panchromatic plates were produced which could be used in air photography with an exposure through a spectroscopically pure red screen of only 0.01 of a second. This fact is of great importance in war aerial photography, but it will certainly become of far greater value now that aerial photography is becoming essential in surveying and topography.

The "Grosshandels-Zeitung" reports that the Berlin agent of the Soviet Government has been instructed to purchase, *inter alia*, 25,000 kilos. of iodine in Germany.

The Cuban Crisis.—Mr. Emile Lecours, wholesale druggist, Havana, has issued a lengthy circular letter dealing with the financial situation in Cuba, and the effect of the moratorium on business. It appears the panic was caused wholly by a defective monetary system and by a few men gambling their wealth and the nation's resources. American co-operation is required, and by the end of January, when sugar begins to move, the buying power will again be inaugurated.

Warfare and the Dye Industry.

The annual dinner of the Chemical Industry Club, held in London on November 18, was the occasion of a significant pronouncement by Lord Moulton on the national importance of the dye industry. In the course of an earnest speech his lordship said:

"We are at this present moment at a crisis of our history. If England does not realise that it must be a great chemical nation, its future is gone. It needs, like almost no other nation, to make in large quantities substances to satisfy the needs of those from whom it must purchase its food, and also to realise that moments may come when it has to stand alone, and satisfy all its own needs in a time of unmeasured trial. We have passed through four years of war. I do not suppose that any of you realise, like I did, that we were dependent for the whole of our resistance on matter that had to be brought many thousands of miles over oceans haunted by submarines, to give us the nitrates that the Germans, through their development of chemistry, were making in unlimited quantities at home. . . . I feel that the most important question of to-day is whether England will earnestly and successfully take to manufacturing nitrates from the atmosphere, both for the purposes of peace—where it needs fertilisers so terribly—and for the purposes of war, when it must be able to get destructive nitrates from its own manufactures. The question is in strong hands, but I want you all to realise that it is not mere knowledge that we want. We want existing manufactures able, by reason of their size, and the mastery which those who work them have attained from chemistry, to bear at once the overload that would be thrown on their shoulders should war again befall us."

Lord Moulton added that the industry of organic chemistry concentrated itself on the work of the dye-maker, because it was the only industry in which a plant capable of being adapted to deal with the manufacture of organic substances necessary in war was to be found. Moreover, it was the industry which poured unmeasured wealth on our enemies in the war, and which should be an equal source of wealth to us, and make it possible for us equally to reap richly from all the nations of the world by the way in which we satisfied their needs for dyes.

Mr. W. J. Uglow Woolcock, M.P., who followed, said that it was generally agreed that some form of protection or assistance to the dye industry and everything that went with it was absolutely necessary. It was suggested that there should be a system of licensing, but that it should begin with what in effect was free import, and that the licence barrier should only be put up when the manufacturers of dyes in this country showed that they were willing and prepared to supply that particular dye. The present stumbling-block was that a section of the textile industry was not in agreement, but he thought the size of this opposition had been greatly exaggerated.

Dr. M. O. Forster, in proposing the toast of "The Club," urged that, assuming that Germany could re-establish her world-monopoly of dye-making, it was only a question of time before our textile industry itself became strangled. He was informed a few days ago that there were in Liverpool warehouses 4,500,000*l.* worth of German dyes. In those warehouses there must be now one year's pre-war consumption of those dyes. How were our own dye-making companies to make their way?

Burns on the face resulted from the ignorance or carelessness of a man who lately bought mercury and nitric acid at a Bradford shop and mixed them in a bottle.

Two large German dye and chemical works have established a joint sales office at Copenhagen for the marketing of their medicinal products in Scandinavia and Finland.

Women and Public Economy.—In the course of an address recently delivered at a conference of women publicists held in London, Sir William Glyn-Jones expressed the view that women, even if they were inexperienced, could effect immediate economies in local government.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, wherehy values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Nov. 25.

Finance is still the question of the hour in Mincing Lane, and, with the approach of the end of the month, involving settlements in rubber and other produce, and the cutting of losses, one hears rumours of firms in difficulties, which, although they may not materialise, are probably more unsettling than actual failures. Subsequent to the drug-auction last week, a fair quantity of goods changed hands privately at prices not reported. Among the changes in this section is an easier feeling in crude and refined camphor. Menthol and oil continue easy, the lower prices cabled for to arrive unsettling the market. Opium is steady, with stocks of Turkish getting into smaller compass. Asafetida is arriving more freely, and prices should ease. Fenugreek seed is easier, mustard and lin are lower, anise is steady, and cumin slow. Cocoa butter and olive oil are easier. Isinglass is lower. Mercury is easy and antimony lower. Shellac unchanged on spot, but lower for delivery.

Easier		Lower	
Acetic acid	Fenugreek seed	Anise (Span.)	Linseed oil
Anise oil, star	Lactic acid, B P	Antimony	Lithopone
Arsenic	Lemongrass oil	Camphor (Jp. ref.)	Menthol (c.i.f.)
Aspirin	Methyl sulphonal	Cocaine	Methyl salicylate
Barbitone	Mint oil (c.i.f.)	Coconut oil	Mustard seed
Benzonaphthol	Morphine	Coumarin	Oxalic acid
Camphor, Ch. crude	Pepper	Cream of tartar	Paraldehyde
Cinnamon-leaf (Seych.) oil	Phenacetin	Creosote oil	Phenolphthalein
Clove oil	Phenazone	Formaldehyde	Soda sulphide
Cloves	Potash bichrom.	Gallic acid	Soya oil
Cocoa butter	Quinine (seconds)	Galls (Chinese)	Spearmint oil
Codeine	Soda bichrom.	Glucose	Sulphonal
Copper sulphate	Soda caustic	Isinglass	Vanillin
		Lead products	Wintergreen oil
		Linseed	Wormseed oil

Firmer	
Orange oil (sweet Sic.)	Potash bromide

Cablegram.

New York, November 23.—Business is fair. Bromides are lower. Ammonium has been reduced to 50c., granular potassium to 45c., crystals to 47c., sodium to 43c., and strontium to 50c. per lb. Bismuth salts are lower. Subnitrate is now $2.60, and subgallate $2.60 per lb. Peppermint oil is lower at $5.75 per lb. in tins. Cartagena ipecacuanha has been reduced to $3.00 per lb. Balsam tolu is cheaper at 57½c., and balsam Peru has been reduced to $2.00 per lb.

London Markets.

Anise.—Russian is steady at 86*s.* per cwt., but fair Spanish can be bought at 82*s.* 6*d.*, being easier.

Anise, Star.—Fair Chinese is offered at 120*s.* per cwt., at which sales have been made.

Antimony.—As foreshadowed in our previous issue, the price of English regulus was early this week reduced by fully 10*l.* per ton for good ordinary brands to 42*l.*, while the top brand shows even a greater reduction at 43*l.* 10*s.* The price of either Chinese or Japanese refined now stands at 39*l.* delivered or f.o.b. U.K. Crude is nominally worth about 30*l.* per ton ex warehouse and 27*l.* to 28*l.* c.i.f. The trade demand has so far not revived much, while advices from abroad continue to show weakness owing to excessive stocks.

Asafetida.—Arrivals are taking place more freely to London, and it is probable that prices will be eased.

Camphor (Crude).—Chinese has been sold from 2*s.* 7½*d.* to 2*s.* 9*d.* per lb. on the spot, and December-February shipment is offered at 3*s.* 3*d.* to 3*s.* 6*d.* per lb. c.i.f.

Camphor (Refined) continues dull, with sellers of 2½-lb. slabs at 5*s.* 6*d.* per lb. on the spot.

Canary Seed is quiet at 150*s.* per quarter for good Morocco on the spot.

Cannabis Indica.—The price of fair Bombay tops remains at 34*s.* per lb.

Cantharides.—Russian are still very scarce on the spot, but a limited quantity has just arrived, for which holders ask from 14*s.* 9*d.* up to 15*s.* and 15*s.* 3*d.* per lb., according to quality.

Caraway Seed is unchanged at 37*s.* 6*d.* to 39*s.* per cwt. for Dutch and 24*s.* for stalky North African.

Cassia Fistula can be had at from 70*s.* to 75*s.* per cwt. as to quality.

Cloves are quiet at from 1*s.* 4*d.* to 1*s.* 6*d.* per lb. for Zanzibar as to quality.

Cocoa Butter is easier at from 2*s.* 3*d.* to 2*s.* 4*d.* per lb. for prime English in lots of not less than one ton.

Cod-liver Oil is regarded as a falling market, principally owing to the fact that the Norwegian banks hold large stocks on which they are asking for the "differences" from the owners. Agents in London quote from 230*s.* to 235*s.* per barrel c.i.f. for finest Lofoten oil.

Coriander Seed is steady at 20*s.* to 21*s.* per cwt. for sound Morocco and at 14*s.* for wormy.

Cumin Seed is slow of sale at 30*s.* per cwt. for fair sifted Morocco.

Dill Seed is quiet, and is offering at 24*s.* per cwt.

Egg Products are quiet. Chinese prime hen-yolk is offered at from 60*s.* to 70*s.* per cwt. for old, 95*s.* for new, and for December-February shipment 85*s.* c.i.f. has been paid. Dried yolk is 7*d.* per lb. on the spot, sprayed whole egg 1*s.* 3*d.*, and native dried whole 8*d.* per lb. spot. Prime hen *albumen* is 4*s.* 5*d.* per lb. on the spot, and October-December shipment is 4*s.* 3*d.* c.i.f.

Euphorbium is offered at from 42*s.* 6*d.* up to 60*s.* per cwt. as to quality.

Farina is quiet, with sellers of Japanese No. 1 at 27*s.* 6*d.* per cwt. spot; sales to arrive include November-December at 26*s.* 3*d.* c.i.f. and January-March at 24*s.* c.i.f.

Fennel Seed is firm at 37*s.* 6*d.* per cwt. for East Indian.

Fenugreek Seed is easier at 12*s.* to 12*s.* 6*d.* per cwt. for fair Morocco, according to quantity.

Galls.—Plum-shaped Chinese can be had at 140*s.* per cwt. and ordinary shape at 130*s.* on the spot. With large stocks of Persian available, prices remain easy; blue offering at 110*s.*, green at 95*s.*, and white at from 75*s.* to 80*s.* per cwt.

Ginger.—At auction 30 bags small washed Cochin sold without reserve at from 40*s.* to 44*s.* per cwt.; privately sellers of Japanese quote 49*s.*

Guaiacum.—Good glassy lump is obtainable at from 4*s.* 6*d.* to 5*s.* per lb., good medium at 3*s.* 6*d.*, and dull at 2*s.* 9*d.* per lb.

Henna Leaves.—Fair leaf is obtainable at from 220*s.* to 225*s.* per cwt. on the spot.

Ipecacuanha.—The large stocks give an easy undertone to this drug, the nominal value of good Matto Grosso being 12*s.* 6*d.* to 13*s.*, fair lean to ordinary offering at 12*s.* down to 11*s.* East Indian can be had at 10*s.* 6*d.* and Minas at 11*s.* 6*d.* per lb.

Linseed is lower at 34*s.* per cwt. for good quality.

Linseed Oil.—There has been an almost uninterrupted break in prices to 46*l.* per ton net for London naked, and Hull quotes 43*l.* 10*s.* naked. The market is certainly feeling a continuous lack of confidence, which is clearly reflected in the insignificant demand experienced for some time past. Prices in the early months of the year were double their present values, and crushers rigidly adhere to a hand-to-mouth policy in the matter of seed purchases, and the market in seed has been severely depressed.

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Lycopodium is as firm as ever owing to the absence of fresh imports, and the price is still 22*s*. per lb.

Menthol is quiet and unaltered, with spot sellers of Kobayashi-Suzuki at 28*s*. per lb.

Mercury.—There has been no special feature, the demand either on home account or for export being still very limited, so that the abnormally small imports have little or no effect on the market. From 15*l*. 10*s*. to 16*l*. per bottle is quoted.

Mustard Seed is lower. Good English yellow is quoted about 30*s*. per cwt.

Nux Vomica has been more freely offered for shipment, but buyers hold aloof. Madras is offering at 60*s*. per cwt. c.i.f., and Calcutta at 55*s*. c.i.f., in fair quantities. In the absence of reasonable supplies on the spot, comparatively high prices continue to be paid by needy buyers.

Olive Oil has eased slightly, with edible Spanish offering at from 20*s*. to 21*s*. per gal., and French at 21*s*. to 22*s*.

Opium.—A steady business is taking place on the spot, and the stocks of Turkish are gradually getting into smaller compass. Spot values of good druggists' are from 19*s*. to 20*s*. per lb. according to test. Persian is nominal at from 40*s*. to 50*s*. per lb. Imports from primary markets have been extremely small for some months past, and there is no inducement to send consignments. The exchange on sterling has improved in Smyrna, and this has had the effect of bringing down prices at the source. Last-quoted prices were 17*s*. 6*d*. to 17*s*. 9*d*. c.i.f. for 12 per cent.

Smyrna, November 13.—The sales this week on our market amount to 47 cases, of all denominations, at 16*s*. to 20*s*., as to quality. The exchange is piasters 470 per pound sterling for cheque and $0.72 for one Turkish paper pound. The arrivals are 647 cases, against 970 at same date last year, and the whole stock on this market in first- and second-hands is about 830. There are several buyers, presumably for Continental account, but owing to our small available stock each fresh buyer has to pay higher in order to be able to secure a few cases.

Pepper is lower, fair black Singapore selling on the spot at 5*d*. to 4¾*d*. per lb; November-January and January-March has been sold at 5*d*. to 4⅞*d*. c.i.f.; Lampong is 5*d*., Tellicherry is 6½*d*., and Aleppy 5¾*d*. per lb., all spot. *White* pepper is easier, fair Muntok having been sold at from 1*s*. 1*d*. to 1*s*. 0½*d*.; November-January and January-March shipment has been sold at 10*d*. to 9¾*d*. per lb. c.i.f. Singapore is lower at 11½*d*., and the value of November-January shipment is 9½*d*. per lb. c.i.f.

Saffron.—A demand for the lower qualities at the source has resulted in an increase of five pesetas (equal to about 4*s*. per lb.) on previous quotations.

Sassafras Bark.—We are informed that the 10 bags sold without reserve at 1*s*. 3*d*. per lb. at the auction last week were sea-damaged and offered on underwriters' account; these particulars were not, however, printed in the catalogue. The sound value is 3*s*. 3*d*. per lb.

Senega is still quoted at from 7*s*. to 7*s*. 3*d*. per lb. on the spot.

Shellac has been quiet but steady, the spot value of usual standard TN Orange quality being 560*s*. per cwt.; fine lemon is 670*s*., fine second Orange 650*s*., pure Button 660*s*., and cakey AC Garnet 485*s*. Futures are lower, the sales including December at from 485*s*. to 435*s*. and March at 445*s*. to 420*s*. to 410*s*.

Tamarinds.—Fair Barbados have been selling at 45*s*. per cwt. in bond.

Turpentine.—The market has had rather sharp fluctuations since speculative commitments in forward positions were recently curtailed, and this partly accounted for the heavy fall recorded at one period. Holders of spot spirit have been somewhat strengthened in their attitude by the inroads that were made recently on the warehouse stocks, and the market has been sensitive, while there is no indication at present of any material increase in the imports. London closes at 114*s*. per cwt. on the spot.

Wax, Bees'.—Stocks of all descriptions remain heavy, and as little is passing into consumption the undertone in prices continues easy.

Pharmaceutical Chemicals.

Business continues to be only small and occasional. A few further reductions are recorded this week, but in the majority of cases values are fairly well maintained. Foreign-exchange rates have fluctuated considerably, and this tends to make matters worse and business difficult. Potassium bromide is decidedly firmer on account of the improvement in the German rate of exchange, and consumers have shown more readiness to buy. American makers have reduced their prices, but they are still substantially above the London parity. Among the products which have moved in buyers' favour are aspirin, barbitone, benzonaphthol, lactic acid, methyl sulphonal, phenacetin, phenazone, quinine (seconds), sulphonal, gallic acid, paraldehyde, and phenolphthalein.

Amidopyrin can be had at 27*s*. 6*d*. per lb. on the spot.

Aspirin is quiet at about 4*s*. 3*d*. per lb., and likely to ease further.

Barbitone is easier, and slightly under 20*s*. per lb. would be taken.

Benzoates.—Both benzoic acid and sodium benzoate offer at from 2*s*. 6*d*. to 2*s*. 9*d*. per lb. as to quantity.

Benzonaphthol is easier at from 11*s*. 6*d*. to 12*s*. per lb.

Bromides.—The position of potassium has since our last report undergone a decided alteration for the better, owing to the improvement in the German rate of exchange, and on Wednesday the rates quoted on 'Change were from 1*s*. 2*d*. to 1*s*. 3*d*. per lb., according to quantity. There has been more inquiry, and evidently consumers have been buying a little. The American makers have reduced the price of all bromide salts, but they are still much above the parity of the London market—*e.g.*, potash crystals at 47c., say 2*s*. 9*d*. per lb. On the spot (London) sodium is 1*s*. 4*d*., and ammon. 1*s*. 6*d*. per lb.

Caffeine is steady at about 40*s*. per lb. for pure.

Calcium Lactate is steady at about 3*s*. 9*d*. per lb.

Citric Acid is difficult to quote, there being no definite market quotations. From 3*s*. to 3*s*. 3*d*. per lb. are the nominal values.

Cocaine is lower, hydrochloride offering at from 16*s*. 6*d*. to 17*s*. per oz. At the moment the German rate of exchange influences this product, and the advance in coca leaves at Amsterdam counts for nothing.

Codeine.—The pure crystals offer at 20*s*. per oz., being slightly easier than our previous quotation.

Cream of Tartar.—The spot price appears to be a matter of negotiation, the nominal value of B.P. quality being from 200*s*. to 210*s*. per cwt. Buyers cover immediate requirements only. Cream of tartar substitutes offer at lower prices.

Creosote (ex beechwood), B.P., is unchanged at from 8*s*. 9*d*. to 9*s*. 6*d*. per lb., and ex maplewood, U.S.P., at 6*s*. per lb.

Gallic Acid is cheaper, pure crystals offering at 6*s*. 3*d*. per lb. in cwt. lots, up to 6*s*. 9*d*. for small parcels; to arrive is quoted at 6*s*. per lb. c.i.f.

Guaiacol Carbonate is steady but quiet at from 22*s*. to 23*s*. per lb.

Hexamine can still be bought at from 8*s*. 6*d*. to 9*s*. per lb.

Methyl Sulphonal is easier at about 28*s*. per lb.

Lactic Acid.—B.P. quality sells very slowly, and is easier at from 3*s*. 6*d*. to 3*s*. 9*d*. per lb.

Morphine is easier, with hydrochloride powder obtainable at 14*s*. per oz.

Paraldehyde has declined to as low as 3*s*. per lb. in carboys, and to 3*s*. 3*d*. to 3*s*. 9*d*. per lb. in cases.

Phenacetin is easier, with spot sellers at 11*s*. 6*d*. to 12*s*. per lb., according to quantity.

Phenazone is easier, offering at from 10*s*. 6d. to 11*s*. 6*d*. lb., according to quantity.

Phenolphthallin is weak and lower, with spot sellers at from 7*s*. 6*d*. to 7*s*. 9*d*. per lb.

Pilocarpine is unchanged at 35*s*. per oz. for nitrate and 40*s*. for hydrochloride.

Piperazine.—Genuine pure crystals is steady at 6*s*. per oz.

Potash Permanganate continues very irregular at from 3*s*. to 3*s*. 3*d*. per lb.

Quinine is easier with sales of sulphate at from 3s. 7½d. to 3s. 9d. per oz., and 3s. 9d. is still quoted from dealers. Maker's price is 4s. 1d.

Soda Benzoate can be had at 2s. 6d. per lb. on the spot.

Sodium Diethylbarbituric can be had at 30s. per lb.

Sulphonal has been selling below 25s. per lb., being cheaper.

Tartar Emetic is offered at 3s. 3d. per lb.

Tartaric Acid.—The demand has improved somewhat, and most of the cheaper lots appear to have been disposed of; consequently the market is steadier at from 2s. 5d. to 2s. 6d. per lb.

Terpin Hydrate is unchanged at about 6s. 9d. per lb.

Thymol is offering at from 42s. 6d. to 45s. per lb.

Heavy Chemicals.

With only occasional business of comparatively small orders being transacted, the market in "heavies" remains about the same as last week. Saltcake continues to move in limited quantities, otherwise the market may be summed up as being inert. Values are returned at about last week's figures, but there is a feeling towards further declines in some cases. Formaldehyde has again fallen and is now being quoted as low as 170l. per ton. The slump in this product is no doubt due almost entirely to the Continental offerings at very low figures at a time when considerable stocks are held in this country.

Acetic Acid has eased in price and is not in much demand. Glacial is offering at about 86l., and pure 80 per cent. at about 72l. per ton.

Acetone is dull with the price steady at about 100l. per ton.

Arsenic.—The demand is extremely idle, and although some holders are still quoting about 77l. delivered London or Liverpool, purchases of Cornish white-powder can be made elsewhere at a pound or two less. There seems a feeling amongst buyers that prices must eventually come down from a level considered unduly high.

Barium Chloride is in fair supply, with only small demand at about 24l.

Barytes remains very firm, although business is only small, at from 6l. 10s. per ton upwards, according to quality.

Bleaching Powder is offering at about 26l. per ton, and in little demand.

Borax is moving fairly well, crystals and powder selling at about 41l. per ton.

Boric Acid is quiet and steady at 74l. per ton for crystals.

Copper Sulphate.—Prospects, so far as British makers are concerned, are badly affected by Continental competition, especially Italian, and the home production has perforce to be kept down. Germany, too, now seems able to take export orders cheaply, although the exchange is not quite so much in her favour as it was recently. Home makers are now quoting about 40l. to 41l. per ton f.o.b. Liverpool for casks less 5 per cent., but the market seems chiefly nominal, while the price of metallic copper is again much lower.

Epsom Salt is far from brisk, and is quoted at 9l. per ton in bags for commercial.

Formaldehyde is again lower, plentiful supplies are offered at from 170l. per ton upwards, but there is only moderate demand.

Glauber's Salt is being inquired for and quoted at about 8l. per ton.

Lead Acetate is very quiet and offered freely at about 67l. for brown broken and 70l. for white crystals.

Lime Acetate is steady and quiet, with 80 per cent. material offering at 27l. per ton.

Lithopone is not in much demand and values have fallen considerably; Red Seal 30 per cent. is now obtainable at about 34l. per ton.

Oxalic Acid is again a 1d. lower this week and is quoted at about 1s. 8d. per lb., and the demand is only small.

Potash Bichromate has eased to 1s. 3d. per lb. owing to very keen Continental offerings which have made the market unsteady.

Potash Prussiate.—Both red and yellow are quiet and quoted at 3s. and 1s. 8d. respectively.

Potash Caustic (88 to 92 per cent.) is also weak owing to similar foreign competition, and the demand is but very small; offered at about 78l. to 80l.

Sal Ammoniac.—Makers' prices are: Firsts 110s., and seconds 105s.; crushed, 5s. extra. There are practically no stocks in second hands.

Saltcake remains quite steady, with a fair inquiry at about 16l. 10s. in bags.

Soda Ash is 12l. 10s. to 13l. 10s. per ton. Limited supplies are available with some inquiry.

Soda Bicarbonate is not in good demand and values are likely to weaken a little; quoted at 11l. for refined.

Soda Bichromate is again easier at 11d. per lb.; the demand is small.

Soda Caustic, 70 to 72 per cent., is inclined to weaken at to-day's price of 27l.; inquiry is very small.

Soda Crystals is moving at 7l. 10s. from the works.

Soda Hyposulphite is being asked for and some business is being done in the pea crystals packed in kegs at about 34l. per ton.

Soda Prussiate is still quiet, with value unchanged at 1s. 1d. per lb.

Soda Sulphide is weak and now obtainable at about 40l. for 60 to 62 per cent.

Soda Sulphite is unchanged on a quiet market at about 43l. per ton for anhydrous.

Zinc Products are all the same as last week, with no change either in the price or the state of the market.

Coal-tar Products, Intermediates, etc.—Business is still quiet, and values in the majority of instances are unsteady. Aniline oil and salts are quoted at 1s. 9d. and 2s. per lb. respectively, but there is very little inquiry. Betanaphthol is steady at 3s. per lb. on a quiet market. Paranitraniline is unchanged at 6s. 9d. per lb. Resorcin is steadier at about 12s. after last week's decline. Benzol is not in much demand; quoted at 3s. 6d. for 50° and 4s. 6d. for pure. Solvent naphtha, 90 to 160 per cent., is quiet, with values unchanged at 3s. 2d. per lb. Creosote oil at 1s. 3d. per gallon is 1d. lower than last week, and the market is quiet. Carbolic-acid crystals are steady at 10d. per lb., but there is very little inquiry. Cresylic acid remains firm at last week's figures; crude is 3s. 9d., and 97 to 99 per cent. about 4s. 6d. per gallon. Naphthaline is the same as last week in all qualities, with only occasional demand; crude is from 14l. to 24l. Flakes about 46l., powder 51l., and candles 65l. Pitch continues at the same figure of 12l. per ton. Coal-tar is steady, and quoted at 4l. 15s. per ton.

Essential Oils.

There are few real changes of importance to record, but quotations continue to favour buyers when they happen to come along. Sicilian sweet-orange oil has improved forward as a result of orders placed at the recent low quotations. Star anise is again easier, with very little request. Japanese mint has declined, and so have cinnamon-leaf (Seychelles), clove, and lemongrass oils. Spearmint, wintergreen, and wormseed are also lower. American peppermint has declined at the source. Synthetic chemicals are extremely dull, and keen price-cutting for orders seems to be the rule. A fair business is reported in methyl salicylate, which is lower. Coumarin and vanillin have also declined.

Anise (Star) is dull and easier, with spot sellers of "Red Ship" at 3s. 6d. per lb. for 10-case lots, and for November-January shipment 3s. 4½d. c.i.f. is quoted.

Bergamot.—Spot values appear to be unchanged, holders of 37-38 l.a. quoting 33s. to 34s. per lb. Forward quotations are made in the neighbourhood of 33s. Lower ester value (35-36 l.a.) is offered at 30s. spot.

Camphor.—Japanese essential white is still scarce, with spot sales reported at 215s. per cwt.; to arrive from Holland 180s. per cwt. c.i.f. is quoted.

Cardamom.—Spot lots are reported to have been sold at 84s. to 86s. per lb., at which prices small quantities are available.

Cedarwood is firm at 4s. per lb. in large drums, while up to 4s. 6d. is quoted for smaller lots. For a firm offer 3s. 10d. spot would be accepted.

Cinnamon.—Ceylon leaf is nominal at 8d. per oz. on the spot. Seychelles leaf is lower at 9s. to 9s. 6d. per lb.

for spot. Mysore leaf (90 per cent. phenols) is lower at 12*s*. per lb. for spot.

Citronella.—There is not much demand, and Ceylon is steady at 2*s*. 2*d*. and 2*s*. 3*d*. per lb. in large drums, the forward price being given as 1*s*. 11*d*. Java is unchanged at 4*s*. 9*d*. spot.

Clove.—English distilled is easier at 12*s*. 3*d*. per lb. from first hands.

Dill from East Indian seed distilled in Holland is quoted at 19*s*. 6*d*. per lb.

Eucalyptus.—Spot holders are quoting from 3*s*. to 3*s*. 3*d*. per lb., at which prices business has been done for 60 to 65, 70 to 75, and 75 to 80 per cent. cineol. There is a seller at 2*s*. 10½*d*. per lb. spot. Seven hundred and twenty cases have arrived from Sydney to London.

Geranium is unchanged, about 41*s*. per lb. being quoted for spot Bourbon and 43*s*. for Algerian.

Juniper Berry is dull and steady on spot at 12*s*. 6*d*. to 13*s*. per lb. for B.P. quality.

Lemon is unchanged at 5*s*. 3*d*. to 5*s*. 6*d*. per lb. spot, while round lots are offered at 5*s*. Forward offers are made at from 5*s*. 3*d*. to 5*s*. 4*d*. per lb. c.i.f.

Lemongrass is on the easy side, with sellers at 8*d*. per oz., although 7*d*. would buy spot in round lots, and to arrive 6½*d*. c.i.f. is quoted.

Lime.—Fair West Indian distilled can be bought at 4*s*. 3*d*. per lb. spot.

Mint is easier, Japanese dementholised offering at 5*s*. 10½*d*. per lb. on the spot, and December-February shipment at 4*s*. 10½*d*. c.i.f.

Neroli.—Good French oil is quoted on spot at from 90*s*. to 100*s*. per oz. The high prices, however, have frightened off buyers.

Orange.—A fair amount of buying at the cheap rates quoted in these columns a fortnight ago, is reflected in a firmer tendency at the source, 17*s*. per lb. c.i.f. now being about the forward price of sweet Sicilian. Spot demand is lacking, and nominally the price is round about 20*s*., though some dealers hold for more.

Otto of Rose.—There appears to be considerable stocks in dealers' hands at present at prices ranging from 42*s*. 6*d*. to 45*s*. per oz. and upwards for good Bulgarian.

Palmarosa is unchanged at 22*s*. 6*d*. per lb. spot for original pots.

Patchouli is steady at 80*s*. per lb. spot, and 70*s*. is quoted for December-January shipment.

Peppermint.—American tin oil is unchanged at 38*s*. per lb. afloat and 40*s*. for spot, which does not seem to be plentiful. Mitcham oil is quoted at 120*s*. per lb., and spot sales have been made at slightly less.

Spearmint is lower on spot, holders now quoting 55*s*. per lb. Consignments afloat are quoted at 50*s*.

Wintergreen (Sweet Birch Oil).—Genuine is lower at 34*s*. per lb. spot in 7-lb. bottles.

Aromatic and Synthetic Chemicals.

Coumarin is lower, spot holders quoting 17*s*. to 20*s*. per lb. Methyl Salicylate is lower at 3*s*. 3*d*. per lb. in 60-kilo. drums. Vanillin is lower, with spot sellers at from 59*s*. 6*d*. to 60*s*. 6*d*. per lb.

Bulgarian Otto of Rose.

Sofia, November 15, 1920.

During the war the Bulgarian rose industry was greatly neglected, and now the growers have to work hard to renew it and modernise it to answer the new conditions. Everyone is doing his very best in this direction, but it may take four to five years to accomplish, although the problem is being undertaken with confidence. Since the Balkan War, Sofia has become the heart of Bulgaria, and the centre of all industrial and commercial enterprises. The rose crop, 1920, was the smallest on record—hardly more than 40,000 kilos., which yields only a quarter of the average annual demand for otto. The coming crop is bound to be even smaller, as the rose plantations are in very sickly condition, and were further damaged by the recent cold snap. Good pre-war crops are not expected before 1924. Now that the war is over everyone is working hard to undo its evil effects. Absolutely pure otto of rose is nowadays a *rara avis*, but some quantities reach a surprisingly high standard.

Hamburg Drug and Chemical Market.

November 16.

The German currency has once more dropped to an alarmingly low value, and if the saying holds good that the rate of exchange of a country is the thermometer of the confidence it enjoys abroad, then foreign confidence in Germany at the present moment would appear to be extremely small. How could it be otherwise, when a comparatively small number of electrical workmen, as was recently the case in Berlin, is able to deprive, at least locally, the country of power and light, both of which are already so greatly reduced. Whether the strike itself was justified and necessary is another matter; fire is also a necessary agent, but one does not place it in the hands of children and careless individuals. Why should the masses be allowed to play at will with the menace of strike? There is in Germany a very apparent desire to begin the work of reconstruction, and this is evident in the fulfilment, as far as possible, of the severe conditions of peace. But the good will of those who are willing is bound to weaken if the progress achieved is constantly being negatived by a section of individuals who have no desire to work, and by those who refuse to listen to reason. Germany's progress will be difficult and painful, as the people must learn to begin again from the very beginning; but eventually, in the words of the Chinese proverb, "time and patience make a silk dress out of mulberry leaves." In the chemical and drug markets home business was exceedingly brisk, while export orders are now coming in appreciably larger number, in consequence of the fall in the exchange. A large number of articles show a tendency to advance in price, particularly those which have to be purchased abroad, and which now cost more owing to the depreciated value of the mark; this refers especially to manufactured goods for which the raw materials have to be imported.

The following quotations are in marks per kilo.:

Acetanilide.—Since speculators have burnt their fingers, it has been neglected and remains unsold at m.50. Several foreign orders cannot be filled, as foreign countries have refused import licences.

Acetylsalicylic Acid is quoted at m.90 for home consumption and m.95 for export.

Alum.—The home price remains unchanged at m.3.75 for powder and m.4.25 for lump. It is, however, in demand by foreign buyers at m.4.25 for powder and lump.

Ammon. Bromide has been purchased by foreign buyers at m.36 in small amounts only.

Ammonium Chloride (white, 98 to 100 per cent.).—Large foreign orders at m.9 have come in, and the price appears likely to advance.

Antipyrine is very firm at m.340.

Aspirin.—Genuine was in small demand at m.300.

Benzaldehyde (almost free from chlorine).—The demand has increased, both at home at m.80, and for export at m.85.

Benzoates.—*Benzoic Acid* is unchanged at m.60. *Sodium Benzoate*, after covering autumn requirements, has been sold in small amounts at m.55.

Boric Acid is in brisk demand; also by foreign buyers, at m.26.50 for crystals, and m.27.50 for powder.

Buckthorn Bark has been in demand by foreign buyers, and is now firm at m.15 for whole bark and m.16 for cut.

Caffeine (Pure), owing to scarcity, has advanced to m.950, and has been purchased for export at m.1,025. Caffeine sodio-benzoate and caffeine sodio-salicylate have not advanced in price, and remain at m.600.

Camphor (Refined).—Japanese slabs are being regularly ordered in small amounts at m.210.

Camphor (Synthetic).—Powder is now in greater demand at m.150.

Chamomiles.—No change at m.23 for last year's flowers, and m.36 for this year's.

Citric Acid is selling briskly at m.90; foreign buyers are purchasing in large quantities at m.95.

Coumarin.—Actual transactions apparently are taking place only between speculators and for consumption only in small amounts at m.460.

Fennel Oil is cheap at m.200.

Gentian is now selling more freely at m.14.

Glycerin.—A tremendous demand has set in for winter requirements, and the price has advanced to m.34.

Heliotropine has been sold only in small amounts at m.450.

Hexamethylenetetramine has been purchased for export at m.260 in quantities.

Hydroquinone has recently been in demand, and now fetches m.175.

Juniper Berries are now being sold in large amounts at m.500 for 100 kilos., gross for net, for first quality, and m.350 per 100 kilos. for ordinary.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London

(October 25 to November 1).

Egg products: (Ch.) albumen, 556 cs.; whole, 107 cs.; yolk, 599 cks.
Farina (Holl.), 600 bgs.
Gums, resins, etc.: (E.I.) 240 bgs.; acacia, (E.I.) 45 bgs., (P. Said) 20 bgs.; oopal, (Straits) 150 cs., (Belg.) 1,393 bgs.; karaya (E.I.), 360 bgs.; lac: (E.I.) button, 25 chts.; (E.I.) shell, 100 pkgs. 50 chts., (Holl.) 6 cs.; resin, (N.Y.) 400 brls., (Fr.) 300 brls. 125 cks., (Sp.) 30 brls.; tragacanth (E.I.), 33 cs. 93 bgs.
Lithopone (Antw.), 100 cks.
Oils, essential: (Fr.) 3 cs. 20 cbys., (N.Y.) 32 pkgs.; bergamot, (Holl.) 2 cs., (It.) 9 cs.; citronella, (Cey.) 4 drms., (E.I.) 15 crts.; lemon (It.), 12 cs. 6 × ½ cs. 10 × ¼ cs.; mint (Jp.), 70 cs.; orange (It.), 1 tin; patchouli (Jp.), 4 cs.; peppermint (Gre.), 1 cs.; rosemary (Sp.), 7 cs.; sandalwood (E.I.), 331 cs.; turpentine, (Port.) 1,027 cs., (Fr.) 250 cks.
Oils, fixed: castor oil (It.), 5 cs.; coconut (Cey.), 604 pkgs.; ground-nut (Jp.), 3,200 cs.; olive, (It.) 10 cs., (Fr.) 50 cs.; wood (Ch.), 752 cks.
Petroleum jelly (U.S.), 200 brls.
Rectified spirits (Natal), 50 drms.
Seeds: canary, (Sp.) 148 bgs., (Moroc.) 200 bgs., caraway (Holl.), 325 bgs.; copra (Straits), 1,635 bgs.; coriander (Moroc.), 329 bgs.; ground-nuts (Ch.), 280 bgs.; lin, (E.I.) 38,328 bgs. (Moroc.) 550 bgs.; mustard (Holl.), 19 bgs.; niger (E.I.), 66 bgs.
Soy (It.), 30 cks.
Spices: arrowroot (N.Y.), 59 brls.; capsicum (E.I.), 45 bdls.; cinnamon (Cey.), 100 bls.; cloves, (Penang) 5 cs., (It.) 50 cks.; ginger (E.I.), 100 cs.; pepper (Straits), 225 cs.
Wax, paraffin (U.S.), 244 bgs. 145 brls.

Liverpool

(October 23 to 30).

Chemical products, etc.:
Acetic acid (U.S.), 193 brls.
Barytes, (Sp.) 500 sks. 200 bgs., (U.S.) 95 brls. 183 × ½ brls.
Copper iodide (Jv.), 31 brls.
Cream of tartar (Sp.), 12 bls.
Pot. mur. (Hamb.), 250 bgs.
Prussian blue (Fr.), 6 cks.
Saltpetre (E.I.), 977 bgs.
Soda chlorate (Fr.), 100 cks.
Drugs, crude, etc.: (N.Y.), 164 cs.; herbs (Fr.), 17 bls.; leaves (Fr.), 35 bls.
Aloes (Curacao) 40 cs.
Balsams (Braz.), 56 cs.
Cinchona (Braz.), 136 bgs.
Cod-liver oil (Norw.), 50 brls.
Cubebs (Amst.), 8 bskts.
Gentian (Fr.), 22 bls.
Liquorice wood (Fr.), 11 bls.
Dyes, dyeing and tanning materials, etc.: (E.I.), 33 cs.; dyewood ext. (U.S.), 70 brls.; logwood ext. (U.S.), 155 brls.; myrabolans (E.I.), 2,000 pockets; orchella (Colon), 114 bls.; sumac (It.), 30 brls.
Isinglass (Para), 27 bgs.
Kieselguhr (Sp.), 200 bgs.
Magnesite (Holl.), 200 bgs.
Oils, essential: (Sp.) 18 drms., (Fr.) 133 pkgs.; turpentine (Port.), 53 cs.
Oil, palm, (W. Af.) 1,592 cks., (Sp.) 25 cs.
Resin (Fr.), 100 cks.
Seeds: caraway (Holl.), 50 bls.; castor (Para), 51 bgs.; copra (S. Amer.), 700 bgs.; cotton, (S. Amer.) 3,468 bgs., (Holl.) 520 bgs.; ground-nuts, (Jv.) 1,437 bgs., (E.I.) 3,031 bgs., (W. Af.) 3,935 bgs.; millet. (E.I.), 901 bgs.; palm (W. Af.), 77,518 bgs. 850 tons; sesame (W. Af.), 1,379 bgs.
Wax, paraffin (U.S.), 645 brls.

Goole

(October 22 to 29).

Dyes (Antw.), 545 brls. 5 cs. 543 cks.; farina (Belg.), 13 cs.

Grimsby

(October 23 to 28).

Drugs (Hamb.), 38 bgs. 14 pkgs.; dyes (Antw.), 238 pkgs.; indigo, artificial (Germ.), 60 cks.

Hull

(October 23 to 26).

Aniline dyes (Belg.), 279 pkgs.; barytes, (Germ.) 66 cks., (Belg.) 100 bgs.; cod-liver oil (Norw.), 278 brls.; copal (Holl.), 40 bls.; hydrosulphite (Holl.), 159 brls.; indigo, artificial (Holl.), 56 cks.; linseed oil (Norw.), 12 brls.; potash salts (Holl.), 20 bgs.; turpentine (Swe.), 33 brls.

Manchester

(October 25 to 27).

Betanaphthol (Antw.), 8 brls.; formic acid (Fr.), 72 cbys.; lead, sugar (Holl.), 13 cks.; lithopone (Belg.), 50 cks. 200 brls.; magnes. chlor. (Holl.), 236 cks.; soda bichrom. (U.S.), 11 cks.; soda chlorate (U.S.), 334 drms.; tartar emetic (Antw.), 10 brls.; wax, paraffin (U.S.), 150 brls.

Southampton

(October 26 to 30).

Casein (Fr.), 394 bgs.; pharmaceutical products (N.Y.), 42 pkgs.; sunflower seeds (Cape), 319 bgs.; wattle bark (Natal), 2,401 bgs.

London

(November 1 to 6).

Chemical products, etc.: (Fr.) 200 bgs., (Belg.) 45 cks., (Holl.) 28 cs.
Acetic acid, (N.Y.) 25 brls., (Holl.) 200 djohns 42 cks. 200 pkgs., (Germ.) 84 bskts.
Argol (Sic.) 188 bgs.
Arsenic, (Jp.) 50 cks., (Aust.) 68 cks., (Beira) 150 drms.
Barium chlorate (Germ.), 19 brls.
Barium perox. (Germ.), 61 drms.
Barytes, (Germ.) 300 bgs. 170 cks., (Sp.) 1,000 bgs. 420 brls.
Bismuth ores (Chile), 435 sks.
Borax (Liban), 4 brls.
Boric acid (Holl.), 500 cks.
Cobalt chlor. (Germ.), 9 brls.
Creosote (U.S.), 69 cs.
Iodine (Chile), 290 kgs.
Lead acetate (Germ.), 10 cks.
Lead, white (Belg.), 55 cks.
Naphthol (N.Y.), 84 brls.
Oxalic acid (Holl.), 12 cks.
Potash, caustic (Germ.), 51 drms.
Potassium (Norw.), 5 kgs.
Prussian blue (Germ.), 15 cks.
Saccharin (N.Y.), 5 cs.
Saltpetre (Germ.), 390 cks.
Silver nitrate, (Hamb.) 3 pkgs., (Holl.) 9 cs.
Soda bichrom. (N.Y.), 84 brls.
Soda hyposulphite (Germ.), 220 brls. 120 pkgs.
Soda nit., (Belg.) 47 brls., (Chile) 11,867 sks.
Sulphur (Sic.), 1,482 bgs. 50 brls.
Tartar, (It.) 21 cks., (Fr.) 364 bgs.
Vermilion (Ch.), 10 cs.
Zinc oxide (Antw.), 120 brls. 25 cks.
Drugs, crude, etc.: (France) 103 cs., (U.S.) 270 cs.; roots (E.I.), 124 bgs.; herbs, (Fr.) 9 bls., (Germ.) 13 cs.; flowers (Fr.), 11 cs.; leaves (Fr.), 36 bgs.
Angelica (Fr.), 8 cs.
Camphor (Jp.), 50 cs.
Cardamoms (Cey.), 60 pkgs.
Chaulmoogra oil (Cal.), 8 cs.
Cod-liver oil (Norw.), 4 cs.
Dragon's blood (S'pore), 23 cs.
Gentian (Fr.), 14 bgs.
Henbane (P. Said), 3 bls.
Kola (Cey.), 59 pkgs.
Liquorice juice, (It.) 200 cs., (Sic.) 150 cs.
Nux vomica, (E.I.) 40 pockets 80 bls. 64 bgs., (Ch.) 56 bgs., (Cey.) 108 pkgs.
Quillaia (Chile), 134 bls.
Sage leaves (N.Y.), 72 pkgs.
Senna (Tinn.), 99 bls.
Squills, (Sic.) 33 bgs., (Malta) 43 bgs.
Dyes, dyeing and tanning materials, etc.: aniline dyes, (Belg.) 124 pkgs., (N.Y.) 15 pkgs., (Germ.) 40 brls., (Holl.) 16 cks.; myrabolans (E.I.), 1,325 pockets.
Egg products, etc.: albumen (Ch.), 56 cks. 853 cs.; whole (Ch.), 107 cs.; yolk, (Ch.) 308 cks. 223 cs., (Antw.) 23 cs.
Farina (Holl.), 40 bgs. 370 bls.
Glucose (Holl.), 31 cks.
Gums, resins, etc.: copal (Belg.), 2,366 bgs. 996 bskts.; lac: shell (Cal.), 250 bgs. 300 chts.; resin (U.S.), 6,002 brls.
Lithopone (Belg.), 200 brls.
Oils, essential: (It.) 18 cs., (Holl.) 2 cs.; bergamot (It.), 12 cs.; caraway (Holl.), 23 cs.; cedarwood (U.S.), 1 drm.; cinnamon (Holl.), 6 cs.; citronella (Galle) 16 drms., (Cey.) 14 drms.; geranium (Fr.), 7 pkgs.; guaiacwood (U.S.), 765*l.*; lemon (It.), 151 cs.; linaloe (U.S.), 1 drm.; mint (Jp.), 50 cs.; orange (It.), 10 cs.; orris (U.S.), 1 drm.; peppermint (U.S.), 10 cs.; petitgrain (Argent.), 10 cs.; pine (U.S.), 100 brls.; sandalwood (Anst.), 10 cs.; sassafras (U.S.), 3 cs.; spike (Sp.), 8 drms.; wormseed (U.S.), 2 cs.
Oils, fixed: castor (Fr.), 17 cks.; coconut (E.I.), 377 cks. 103 hhds. 104 cs. 279 pkgs.; cotton (U.S.), 1,000 brls.; fish (Jp.), 4,529 cs.; ground-nut (Jp.), 556 brls.; olive (Fr.), 175 cks.; shea nut (Belg.), 299 cks.
Seeds: caraway (Holl.), 20 bgs.; ground-nuts (Ch.), 1,680 bgs.; lin, (E.I.), 18 695 bgs. 1,364 bls., (R Plate) 23,391 bgs.; millet (E.I.), 500 bgs.
Spices: cinnamon (Norw.), 100 bls.; nutmegs (S'pore), 84 bgs.; pepper (S'pore), 2,326 bgs. 76 pkgs.
Spirit, rectified (Durban), 25 drms.
Talc (Delag. B.), 374 bgs. 2 cs.
Waxes: paraffin, (U.S.) 790 bgs. 9,670 brls., (Holl.) 200 bgs., (scale) 871 tons 594 bgs.

Liverpool

(November 1 to 6).

Chemical products, etc.:
Barytes, (Belg.) 301 bgs., (It.) 521 bgs.
Bismuth (Aust.), 89 bgs.
Iodine (Chile), 312 brls.
Potash chlorate (Swe.), 196 kgs.
Potash nit. (Fr.), 1,000 brls.
Soda bichromate (N.Y.), 62 cks.
Soda nitrate (Chile), 11,174 bgs.
Tartar (Fr.), 188 bgs.
Wine lees (Fr.), 115 bgs.
Zinc oxide (Antw.), 40 brls.
Drugs, crude, etc.: (U.S.), 20 cs.
Dragon's blood (S'pore), 23 cs.
Guinea grains (W. Af.), 9 bgs.
Ipecacuanha (Monte Vid.), 9 bls.
Liquorice, (It.) 4 × ½ cs., (Sic.) 46 cs.
Liquorice root (Sic.), 52 bgs.
Manna, (Sic.) 7 cs., (It.) 5 × ¼ cs.
Orange (Sic.), 3 bls.
Sarsaparilla (Puerto Cortes), 18 bls.
Squill (Sic.), 15 bgs.
Drugs, dyeing and tanning materials, etc.: α-naphthylamine (N.Y.) 175 brls., (*beta*) 24 brls.; sumac (Sic.), 1,914 bgs.; valonea (Smyr.), 1,067 bgs.
Oils, essential: (Sic.) 2 cs., (It.) 2 cs.; lemon (Sic.), 2 × ¼ cs.
Oils, fixed: olive (Fr.), 55 cs.; palm (Antw.), 100 brls.; whale (Norw.), 1,647 brls.
Resin (Fr.), 249 cks.
Seeds: ground-nuts (W. Af.), 13,788 bgs.; lin (R. Plate), 2,805 bgs.; palm (W. Af.), 37,974 bgs.
Waxes: paraffin, (U.S.) 246 bgs. 5,503 brls., (scale) 149 brls.

Hull

(November 1 to 6).

Alizarin (Holl.), 24 pkgs.; aniline dyes, 10 pkgs.; casein (Norw.), 72 bgs.; essential oils (Sic.), 32 cs.; lemon oil (It.) 22 cs.; olive oil, (Sp.) 100 brls., (It.) 10 cs.; potash cyanide (Holl.), 11 cs.; seeds: castor (E.I.), 5,566 bgs.; cotton (E.I.), 40,592 bgs.; ground-nuts (E.I.), 2,667 bgs.; lin (E.I.), 84,997 bgs.; soda hyposulphite (Hamb.), 40 cks.

Southampton

(November 1 to 6).

Barytes (Germ.), 33 cks.; potash mur. (Germ.), 40 bgs.; seeds: lin (R. Plate), 5,284 bgs.; sunflower (Cape), 504 bgs.; spirit, rectified (Natal), 65 drms.; wattle extract (Natal), 944 bgs.

London

(November 8 to 15).

Casein (Fr.), 862 bgs.
Chemical products etc.: (Fr.) 37 cs., (Belg.) 16 pkgs., (Germ.) 38 pkgs. 16 cs
Acetic acid (Holl.), 25 cks. 43 brls.
Alum, (Belg.) 100 bgs., (Holl.) 180 bgs.
Ammon. chlor. (Germ.), 95 cks.
Argol, (Port.) 270 bgs., (Jv.) 145 bgs.
Arsenic, (Beira) 21 brls., (Port.) 84 cks., (Antw.) 28 cks.
Barytes, (Antw.) 200 bgs., (Germ.) 51 cks.
Calc. tart (Fr.), 185 bgs.
Citric acid (Fr.), 20 cks.

D D

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

One Man—Six Voices.

Sir,—As the secretary of a local association, I have just received from the Pharmaceutical Society a circular on reorganisation, which is one of the most brazen circulars I have seen. We chemists in business, who have so long sought for a business organisation, and have invariably been checkmated by those acting for the Society, are apparently the last to be consulted in any scheme for reorganisation. It is left to The Chemist and Druggist to act in an absolutely proper way, and go straight to the people concerned. This impertinent circular says that "any attempt to defeat the amalgamation proposals can but have the effect of weakening the trade organisation and the fighting power of pharmacy." Here, once more, is the same old game, gentlemen. Proposals are put forward by the officials of the Society. You must not question them; you must not criticise them. If you do, it is "political animosity," and will be "ruthlessly swept aside." What humbug to talk of calling a conference to "complete" this precious scheme! We all know the utter futility of these so-called conferences. I challenge any man to dare to get up and try to modify the "platform" proposals. Who has been hatching this wonderful scheme of amalgamation? That is where the advantage of living near London comes in. The local secretary at a distance knows nothing, but the man near the hub knows the wire-pulling that has been going on. It is extraordinary that these men at Bloomsbury Square pretend they are anxious about pharmaceutical organisation. They are not; and we shall find that all the little tit-bits in this high-sounding amalgamation deal are already allotted. This man is to be pensioned off; that man is to have a nice "cushy" job at, say, 1,000*l.* a year, and so on. Mr. Chemist in Business, who pays for all this, must not utter a word. Remember, Mr. Chemist in Business, it is not your territorially elected body that plans these games. The body is allowed just to chew the cud and put in a comma, but not to make essential alteration. The real essential thing is to make everything "comfy" for Mr. Stickphast Official. Therefore the beating of the tom-toms. Do you intend to have your business interests sacrificed in the same way, by the same set of men, by the same old methods? Will you go to a conference and be wangled in the same "admitted and approved" way? Or will you say "My interests first" and every other consideration second? It is up to you, Mr. Chemist in Business.

Faithfully yours,
Local Secretary. (22/11.)

Proprietary Medicines Bill.

Sir,—I see that both Mr. Neathercoat, at the annual dinner of the Leeds Chemists' Association (*C. & D.*, November 20, p. 56), and Mr. Parry, at the Bradford Pharmacists' Association (*C. & D.*, November 20, p. 69), asserted that the Proprietary Medicines Bill will not affect the known, admitted, and approved remedies as sold by pharmacists. Mr. Neathercoat did go so far as to say "if the conditions of exemption from stamp-duty are observed," but Mr. Parry said the omission was intentional. But it is the expectation of most of us, and I believe more than the expectation in the case of officials who know what is going on, that so soon as the Proprietary Medicines Bill is passed, another Bill will be introduced to amend the Medicine Stamp Act, and the exemption at present allowed to known, admitted, and approved remedies will be modified, so that any drug or combination of drugs sold for the relief, prevention, or cure of any ailment, except on medical prescription, will be subject to stamp-duty, and will then automatically come under the Proprietary Medicines Bill. What will the Council do to meet this threat?

Yours faithfully,
Threatened. (20/11.)

The "C. & D. Plebiscite.

Sir,—The taking of a plebiscite by the *C. & D.* is a splendid opportunity for all chemists to express their wishes regarding a trade organisation, and it is to be hoped that all pharmacists will rise to the occasion and fill in the forms before November 27. In my opinion the questions are extremely easy to answer—it is only necessary to write "Yes" against all of them, except, perhaps, No. 2, and we should then probably be able to form a representative body of pharmacists for trade matters as distinct from an educational and examining body. There will doubtless be many members of the Society who think that such a body will be a secession from the Society; but this is not so, as it has been definitely laid down that the matters this organisation is intended to deal with cannot be touched by the Society, so that it is to be hoped that sentimental feeling will not prevent members filling in the forms to help the formation of a body which will really be a powerful and beneficial one.

Yours faithfully,
Plebiscite. (19/20.)

On Substitution.

Sir,—Substitution is an unmixed evil for all parties. Old institutions dressed up to look like new may fool us all for a few moments; when the mask is torn off we see the same old face shaded by the same old hat, but Sally has a new frock. Hitherto we have worshipped in Bloomsbury; we are now to be compelled to accept the substitute in Temple Chambers or go without. They sell us "butter," but it's only "marge."

Yours truly,
A Mere Londoner. (22/11.)

The Greenwood Case.

Sir,—I am glad to see that the Pharmaceutical Council has taken action with regard to the Greenwood case. A better opportunity for bringing these matters to the notice of the Government has never occurred publicly, and it embodies all the facts that we have asked to have rectified for years. Whether the Council will get any satisfaction is another matter, but it is to be hoped that it will persevere until, at any rate, we get an inquiry. The Ministry of Health is now the body which presumably deals with these matters, and it is not likely to favour pharmacists; but it is not all-powerful and has this week had to drop a number of clauses in the Ministry of Health (Miscellaneous Provisions) Bill, and this retreat ought to give us further hope in other matters, notably the Proprietary Medicines Bill.

Yours faithfully,
Inquirer. (19/20.)

Distress in Austria.

In the *C. & D.*, I., 1920, p. 736, we inserted a letter sent to us by Squire & Sons, Ltd., 413 Oxford Street, London, W. 1, from Miss A. Lauder Brunton, daughter of Sir Lauder Brunton, appealing for medical requisites. Messrs. Squire send us the following letter, which has been received recently from Miss Lauder Brunton, of the Friends' Relief Mission, 16 Singerstrasse, Vienna:

It is some months now since I wrote my appeal to the chemists in England for help for the hospitals in Austria reduced to great straits of poverty and much suffering. The response I received was exceedingly generous, but owing to the slow transport under the present conditions the stores did not arrive until two or three weeks ago, and I wanted to have some words from the hospitals themselves before writing to you again. That the stores were highly welcome and urgently needed I think the enclosed letters will make quite clear to you, and also the deep sense of gratitude and the glimmering of hope that the help extended to them has awakened. Surely England will come to the rescue with the only help that can be of permanent value—that of providing

means for the people to work again, and again become self-supporting. With the united thanks of the hospitals and the Friends' Relief Mission.

From Landeshauptmann o. Meyer.

The Friends' Relief Mission has surprised the Landeskrankenanstalten in Salzburg with splendid gifts of foods for children, malt extract, medical instruments, calico, drugs, vaseline, and cod-liver oil. Not content with that, the Friends' Relief Mission gave ten Dutch cows and a young bull for the farm in connection with the hospital. The State Council, as manager of the State hospital, and as the elected representative of the whole population of the country of Salzburg, stands impressed by this truly Christian work and recognises the deep inward feeling that this work must give rise to. A poor, innocent people came through this unhallowed war very near the verge of ruin. The poverty was so great that the State Council could no longer provide the people seeking healing the nursing in its hospitals, with what was needed to restore them to health. Medicines and food, and especially milk, were lacking, and the State Council had to see this suffering without being able to give sufficient help, or to do anything to stay it, as all means thereto were lacking. In this deep affliction the magnificent present of the Friends' Relief Mission must be regarded as a real gift of Providence, the value of which becomes even more because, through it, faith in mankind is beginning to grow again in the hearts of a sorely stricken people. The State Council offers joyfully the deeply felt thanks for the really splendid gifts to the Friends' Relief Mission and all the men and women working in this Society, from the whole land of Salzburg, and not less the thanks of the sick people. This act of extraordinary love to one's neighbours will never be forgotten by the hearts of the people in Salzburg. May the Friends' Relief Mission accept the expression of the most grateful remembrance through the Landesrat Salzburg.

From Prof. Dr. Johann Loos, Director of the University Children's Hospital, Innsbruck.

Will you have the goodness to convey my best thanks and the thanks of the small patients in my hospital to the English chemists who have sent bandages, medicaments, and soap through you to the children of the Innsbruck Children's Hospital? Our benefactors may rest assured that all the materials sent are indispensable to us and are extremely welcome. They will certainly help much suffering and help forward the cure of many sick children.

Cancer and Some of its Assistants.

Sir,—Referring to my previous note (*C. & D.*, October 16, p. 76), cancer seems to be an asexual reproduction of the body which cannot be fully developed because it is developing upon a sexually produced body, which body is undergoing organic changes to accommodate the new conditions. Persons who eat large quantities of pork and other excessively fatty meats develop cancer of the stomach, due to excessive secretion of steapsin, which splits off free fatty acids from the fats, with a subsequent deposition of cholestrin and affected assimilation. This excess of steapsin takes place at the expense of the amylopsin and tripsin, which are reduced in consequence. The use of substances rich in saponines along with alkalis are indicated in such cases. According to Hammersten and Hedin, cretinine is found in the urine of persons suffering from cancer of the liver; working upon this information and knowing that the pituitary gland was enlarged in cretinine cases, it is found that the anterior lobe of the pituitary gland increases the growth of cancer enormously, while the posterior lobe has the opposite effect, clearly indicating that the anterior lobe must be enlarged in these cases, producing secretions assisting the growth. The following illustration from the vegetable kingdom will show why cutting, *x*-rays, and radium assist the growth: When a gardener wishes to grow potatoes he sets them in the dark to sprout. If the sprouts grow too vigorously he brings them into the light or rays, when the rapid growth is arrested owing to the soluble food material upon which the sprouts are feeding being transformed into starch again; the potatoes become green and shrink, but directly a favourable opportunity presents itself the growth is more vigorous than ever because of the accumulated food material stored. Should a sprout or sprouts be cut off, others soon develop to use up the stored food material; this also explains why research workers with *x*-rays sometimes develop the disease. It is easier to treat a weakly growth than a large number of vigorous growths which are actuated by cutting. Much more could be written, but for the time being this is sufficient to prove the aspect of the research.

Yours truly,

West Auckland. J. R. Huck.

Doctors and Diet.

Sir,—The leading article on "Fruits and Their Salts" in the current issue of the "Journal of Tropical Medicine and Hygiene" should prove interesting reading to pharmacists. The writer says "the doctors to whom people fly for advice on the subject of food or drink have no real education in either; a condition which turns out practitioners ill-equipped in the real basis of treatment of disease." There is nothing so confusing, so perplexing, to the young practitioner of medicine as the question of wines. He has had no instruction on them during his student career, and may be suddenly asked what he thinks of sparkling Moselle as a beverage by some gouty old gentleman or lady. He may never have even heard of such a wine, and as to its probable effect on his patient he has not the remotest notion. He shuffles out of the dilemma as best he can, and seeks for information in books and by consulting his medical friends. He will find that of opinions there are plenty, but of accurate scientific knowledge there is none obtainable. "Will no one tell us," asks the writer, "how wines behave in the economy; their scientific bearing upon health and disease; the actual part they play—if they do play a part—in gout; their adulteration with many obnoxious substances, and the difference between bad and good wines—the knowledge we possess is not scientific in any sense, it is mere gossip—the therapeutic value of wines of different kinds and the suitability of such-and-such a wine in varying diatheses?" Here, surely, is a field of activity for the chemist. Many pharmacists sell wines, and are in exactly the same position as the doctors when questioned on the pharmacology of these complex compounds. The pharmacist should study carefully the chemical composition of wines, and there is immense scope for the craftsman who will produce some scientific observations to replace the "gossip" on wines which the medical editor refers to in such scathing terms. It is not often one can indicate a new line of inquiry in these days, but here is one which should prove congenial to many and is still virgin soil. Judging by recent events north of the Tweed there seems little likelihood of "Pussyfoot" legislation throwing the bulk of the retail sale of wines and spirits into the hands of chemists, but, as I have indicated, chemists are already sufficiently interested in the wine trade to make the subject of wine therapy germane to their interests.

Yours, etc.,

M.D., L.P.S.I. (15/11.)

The Vagaries in Strength of Chloroform Water.

Sir,—What is the solubility of chloroform in water? I hear ten thousand of your readers, shocked at my ignorance, call out—1 in 200. I have made many hundreds of gallons of it in my earlier days, and that seemed to be the limit of its solubility—but the very latest American text-book tells us it is soluble in 105 parts of water—or 0.95 per cent. Then the U.S.P. says that aq. chloroform. shall be a saturated aqueous solution, and the Austrian Pharmacopœia says the strength is 1 per cent., while the Italian formula is 1 in 2,000, the Japanese 1 in 400, and the Spanish 1 in 250. Our own B.P. is absolutely silent on the solubility of chloroform in water. Thus a patient who gets a prescription ordering aq. chloroform. in Rome is liable to have it compounded ten times as strong in Paris, five times as strong in London, and twenty times as strong in New York.

Yours truly,

Dublin. J. C. McWalter.

Legal Queries.

Nemo (11/11).—Your rights as a registered druggist in regard to the sale of poisons are not likely to be interfered with by the regulations to be issued under the Dangerous Drugs Act.

T. W. (18/11).—You will find particulars of the effect of the Test Case upon the activities of the Pharmaceutical Society in the section in this issue, "Reorganising Pharmacy."

Irishman (13/11).—The Drugs for the Troops Order issued by the Army Council in 1916 is still in force. The terms of the Order are given in *The Chemist and Druggist Diary*, 1920.

A. McD. (16/11).—Keeping open shop for the dispensing of medical prescriptions in Ireland is restricted to pharmaceutical chemists and apothecaries by Sec. 30 of the Pharmacy Act (Ireland), 1875. Medical prescriptions are not restricted to prescriptions for human use.

W. F. (22/11).—The position in regard to the use of trade-marks on "known, admitted, and approved" remedies was explained in the *C. & D.*, August 28, p. 64, and we agree with you that it has taken a long time for the councillor referred to to realise that we were right.

M. M. (8/11) is tenant of a combined house and shop at an annual rent of 22*l*. He pays the rates, but the landlord is responsible for repairs. Some time ago "M. M." was given notice to quit, and he has now received a notice increasing the rent by 13*l*. 4*s*. a year, being an increase of 35 per cent. under paragraph (c) of subsection (1) of section 2 of the Increase of Rent Act, 1920, and an increase of 25 per cent. under paragraph (*d*) of the same subsection. Is "M. M." bound to pay the whole increase demanded? [The increase of rent demanded would only be permitted if the premises were used solely for business purposes. As the premises are used as a residence they are a dwelling-house within the meaning of the Act, in spite of the fact that they are, in part, used for business purposes also. In the circumstances, the maximum increase which "M. M." can be made to pay is 5 per cent. under paragraph (*c*) and 25 per cent. under paragraph (*d*), making a total advance of 6*l*. 12*s*. After July 2 the landlord will be entitled to claim a further advance of 10 per cent. under paragraph (*c*).]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

D. G. T. (19/11).—Solidified Eau de Cologne.—The shrinking of the sticks of solidified eau de Cologne is due to the large proportion of spirit present. The replacement of part of the spirit by water and the addition of a small proportion of glycerin is advisable.

A. M. O. (19/11).—Syr. Bromoformi Co.—The following is the formula you require:

Bromoformi	♏xv.
Codein.	gr. ivss.
Tr. aconiti	♏xx.
Sp. amygd. amar.	♏L.
Sp. vini rect.	℥j.
Aq. laurocerasi	℥j.
Glycerini	℥ij.
Syr. papav. rub.	℥iij.
Syr. tolu ad	℥xx.

Dissolve the codeine in the spirit and add the bromoform, then the tincture of aconite, the spirit of almonds, and glycerin to the clear solution thus obtained; add gradually, with constant shaking, to a mixture of the syrup of red poppy, cherry-laurel water, and 10 oz. of syrup of tolu, and finally add syrup of tolu to make up to 20 oz. Dose: One to four drachms.

F. S. D. Co. (11/11).—Syrupus Allii, U.S.P. 1890.—This is the only liquid preparation of garlic with which we are acquainted:

Garlic, sliced and bruised ...	℥viij.
Dilute acetic acid	℥xij.

Macerate four days, and press. To the marc add 8 oz. of dilute acetic acid, and again press. Filter the mixed liquors upon

Sugar	lb. ij.

Dissolve, and add dilute acetic acid to make 40 oz. of syrup. The syrup is given to children for whooping cough (teaspoonful doses), or in larger doses for adults.

H. C. D. (20/11).—Cinematograph-theatre Spray Solution:

Lavender oil	2 oz.
Rose-geranium oil	1 oz.
Bergamot oil	½ oz.
Formalin	1 oz.
Spirit to make	16 oz.

This liquid is diluted in the proportion of 1 oz. to 40 oz. of water and used as a spray for the purpose of purifying the air of theatres.

Nervo (30/10).—Poultry Spice.—The sample you send appears to consist of magnesium sulphate (the chief ingredient), ferrous sulphate (a little only), potassium nitrate (a little), together with a small amount of an umbelliferous seed in apparently an unripe condition, probably fennel.

Nihil (6/11).—Flux for Welding Cast Iron.—This powder appears to contain aluminium metal, sodium carbonate, and potassium chloride, also iron, probably in the form of oxide.

E. W. (22/11).—Black Currant Cough Elixir.—The formula for which you ask is as follows:

Syr. ribis nig.	℥x.
Tr. opii,	
Tr. scillæ,	
Acet. ipecac. ... ... aa.	℥j.
Aq.	℥vij.

Dose: One teaspoonful.

G. T. (16/11).—Hair-wash.—The type of lotion which acts as a dressing and stimulant to the hair is represented by the following formula:

Ol. amygd. dulc.	℥ss.
Liq. ammon.	ʒiij.
Tr. canthar.	ʒvj.
Aq. coloniensis	℥ss.
Aq. dest. ad	℥vj.

Mix the oil with a little water, add the ammonia, and shake to emulsify, then add more water and the remaining ingredients.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Nov. 15, 1870.

Receipted Accounts.

"Keep a thing for seven years, and you will find some use for it." This old proverb is often true with regard to receipts. It is difficult to say when anyone may burn a receipt with perfect safety. Some rely upon the Statutes of Limitations, and burn all receipts for simple contract debts that are six years old. But this practice is attended with some danger. In the case of a running account, on which part payments have been made, it may turn out to be necessary to prove payments that had been made more than six years ago. By the law of England, proof of payment lies upon the debtor who alleges he has paid. If a trader sells goods and brings an action to recover the price for which they were sold, he is entitled to succeed on proof of the sale and delivery of the goods. If the defendant relies upon the plea of payment, the burden of proving it lies upon him, and if he fail to prove it the plaintiff recovers in the action. The advice which everyone ought to take is never to part with money in payment of a debt of any importance whatever unless he reserves in his own hand evidence of having paid it.

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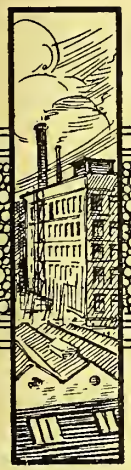

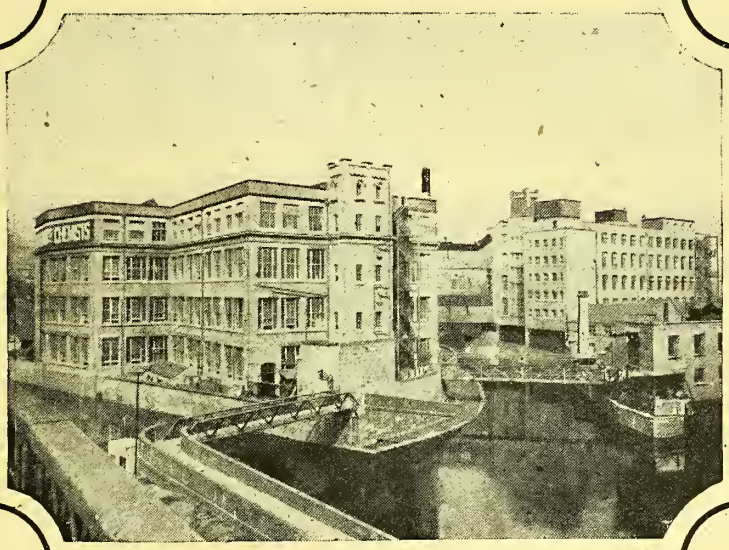

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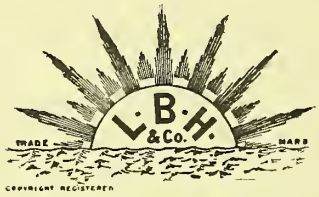

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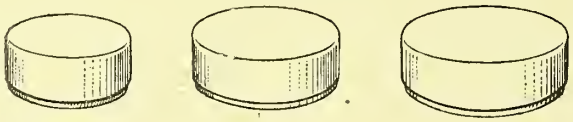

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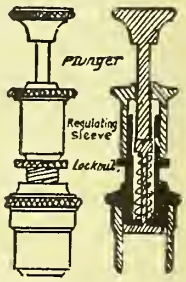

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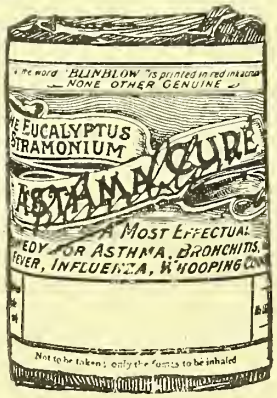

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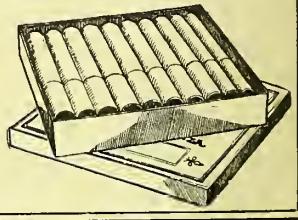


Terms: 12/- doz. net
3 dozen - - 11/6 doz. net
12 dozen - - 11/- doz. net

ORDER THROUGH ANY WHOLESALE HOUSE.

For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

Write for wholesale terms to

CEPHOS LTD., Blackburn, Lancs.

To Owners of

MEDICAL & TOILET PROPRIETARIES

Manufacture and Sale undertaken on specially moderate terms by

J. H. CUFF & SONS

(Harcombe Cuff Ltd.)

Wholesale Chemists and Druggists,

453 Caledonian Rd., London, N. 7

ORILENE CAPSULES & CAZO TABLETS

are now being advertised in an extensive manner in Great Britain and the Colonies.

The Public will want them, and it is bad business to send a customer to a rival shop for anything.

The profit on the retail sale is worth having—and keep your customer.

SOLE MANUFACTURERS:

D. J. LITTLE CO., 37/38 HATTON GARDEN, LONDON, E.C.1.

TELEGRAPHIC ADDRESS: "INFANTHOOD, CENT. LONDON."
TELEPHONE Nº 6778 CENTRAL.

HOOD'S MEDICINE LABORATORY
WHERE HEALTH IS MADE

For the Blood, Stomach, Liver and Kidneys.

HOOD'S MEDICINE

HOODS VEGETABLE PILLS.
HOOD'S OLIVE OINTMENT.
HOOD'S MEDICATED SOAP.
ETC. ETC. ETC.

Proprietors: C. I. HOOD & Co LTD.

"Cecil House," Holborn Viaduct,
LONDON, E.C. 1.

IT'S MADE by HOOD IT'S GOOD

A Note on Tablets

The regular requests for Hood's Medicine in Tablet Form are becoming more and more persistent as a result of our sending out more and more samples. You will do well to take care of these requests. If you can readily respond to them you will also profit by repeat orders and recommendation. Should you fail to satisfy the demand at once all this business will probably go elsewhere. There is no real substitute for Hood's Medicine and our patrons will not be put off with anything else. Hood's Medicine Tablets are now a staple trade and you cannot lose anything by keeping same in stock. They take up very little room, and being packed in glass they cannot deteriorate. We always make good.

P.A.T.A. NOTICE.

113 Temple Chambers, Temple Avenue, E.C. 4.

November 27, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
2/-	Browning's Oxygenated Powder	2/-	18/- doz.
1/6	Condy's Crystals	1/6	14/4 ,,

RETAILERS can greatly assist the usefulness of the P.A.T.A. by urging manufacturers who have not yet placed their specialities on the Protected List to get into communication with the Secretary.

ERNEST JACKSON & CO., Ltd.
Manufacturing Chemists.
Specialists in: COMPRESSED TABLETS; MEDICATED LOZENGES, &c.

INVENTORS of Glossettes REGD. THE ORIGINAL (cushion-shaped) PELLETS of

LIQUORICE & MENTHOL,
and other *Sugar-free* Combinations for Complaints of the Respiratory Organs.

Offices and Works: CREDITON, DEVON.
Telephone: Crediton No 10 Telegrams: "Jackson Crediton."
London Depot: Plantain Place, Crosby Row, Borough, S.E.
Telephone: Hop 2668.

RADIUM COMPOUND.
SELF-LUMINOUS.
Highest Possible Efficiency, Durability & Value.

As supplied to H.M. Government, &c.
Guaranteed to pass N.P.L. requirements.
All Grades in stock, from 15/- per gram.
RADIUM SALTS TESTED AND CERTIFIED.

F. HARRISON GLEW, THE RADIUM LABORATORY
156 Clapham Road, London, S.W.

THERE'S ONLY ONE

Antiphlogistine

(P.A.T.A.)

IT NETS YOU

25 %.

More on £2 lots.

Write for Best Terms to the *Sole British Agent*

J. F. Murphy,
41 St. Ann's Rd.
LONDON, E.3.

The Denver Chemical Mfg. Co.
NEW YORK.

BUYING AGENTS Required in All Parts of the World.

'C CURE.'

The Proven and most Reliable Preventive and Cure for

TRAIN AND SEA SICKNESSES.

PACKED IN ALUMINIUM BOXES ENCLOSED IN DECORATED CARTONS.
Each Box contains Twice the value of any other similar Remedy.

Large Size - **8/-** - per Box.
(Enough for Four Journeys)

Small Size - **4/-** - per Box.
(Enough for Two Journeys)

Liberal Discounts to Wholesale and Shipping.

APPLY:

'C. CURE' Ltd., 111-113 Great Portland St., London, W.1

Phone: 4510 Mayfair. *Correspondence in All Languages.* Telegrams: "Cecurio, Wesdo, London."

Bishop's Kissingen and Vichy

TREATMENT for OVER-FATNESS

A safe and simple method of reducing weight and restoring the figure.

NO INCONVENIENCE
NO DISCOMFORT
NO DIETING
NO EXERCISE
NO RESTRICTIONS
NO SELF-DENIAL

This treatment is as pleasant and convenient to take as it is successful.

Bishop's

GRANULAR EFFERVESCENT

Citrate of Piperazine

A REMEDY of ESTABLISHED and DE INITE VALUE in

GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE, and all MANIFESTATIONS of the URIC ACID DIATHESIS.

Prescribed by the British Medical Profession for 20 years.

Supplied in proprietary sizes and in bulk for dispensing.

Citrate of Piperazine Varalettes are convenient for the pocket.

Alfred Bishop, Ltd. are the Sole Makers of Citrate of Piperazine.

Bishop's Livura

A POWERFUL HEPATIC STIMULANT.

A combination in effervescent form and in correct physiological proportions of the principal active ingredients of the leading Continental Springs.

ALFRED BISHOP, LIMITED

Manufacturing Chemists,

48 SPELMAN STREET, LONDON, E. 1.

Established 1857.

HEALO

SPECIALITIES

If purchased on best terms

Yields more profit to you

than any other advertised preparation on the market.

Bonus; Free Advertisement; Liberal supply of Samples; Attractive Cards, etc.

WITH ALL ORDERS.

SOLD THE WORLD OVER.

Export and Home Enquiries Promptly Attended to.

MAURICE SMITH & CO., LTD.

Manufacturing Chemists, KIDDERMINSTER.

SEND A POSTCARD TO-DAY

FOR PARTICULARS OF THE

AUTOMATIC GUMMED TAPE PRINTER

The Ideal Sealing Machine for Chemists and Druggists.

IT PRINTS AND MOISTENS THE GUMMED TAPE SIMULTANEOUSLY

PRINT YOUR OWN LABELS, - PRICE SLIPS, etc. -

R. A. Stephenson, Ltd.

130 Queen Victoria Street, LONDON, E.C. 4.

WE INVITE YOUR ENQUIRIES

FOR THE FOLLOWING

ASPIRIN, BISM. CARB. P.B., CAMPHOR, POT. BROM. P.B.
FERR. ET AMMON. CIT. P.B.
EXT. CASCARA LIQ. P.B. QUIN. SULPH. P.B.
LIN. CAMPH. P.B. ZINCI OXID. P.B.
SEIDLITZ POWDERS.

Leonards
MANUFACTURING CHEMISTS

ALBION HOUSE,
NEW OXFORD STREET,
LONDON, W.C.1.
Telephone: Museum 3564.

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	10s. 6d.	per doz. net.
3s. 0d. „	26s. 6d.	„ „
5s. 0d {new size (contains double the quantity of 3/- box.)	50s. 0d.	„ „

Beecham's Cough Pills:

1s. 3d. size	10s. 6d.	„ „
3s. 0d. „	26s. 6d.	„ „

Orders: Minimum quantity £5 value—approximately. | *Packages FREE. Carriage PAID.*

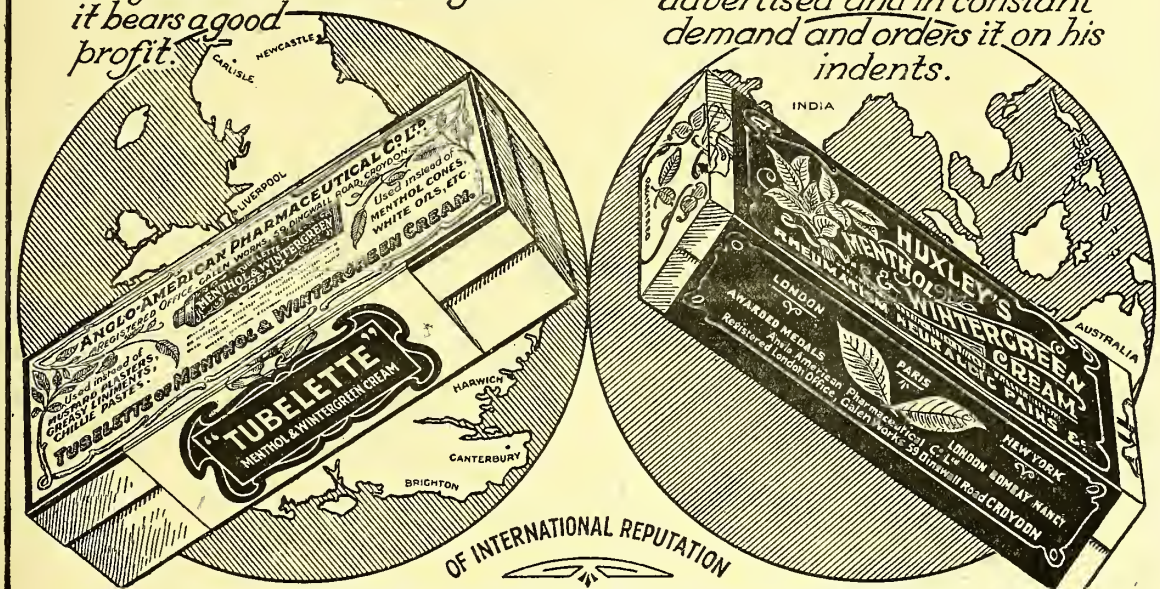
These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

THE BRITISH DRUGGIST
is familiar with this package, knows it is in regular demand, wisely stocks it and is satisfied it bears a good profit.

THE DRUGGIST OF INDIA, BURMAH, CEYLON, CAPE COLONY, AUSTRALIA & NEW ZEALAND
knows this package and sees it advertised and in constant demand and orders it on his indents.



OF INTERNATIONAL REPUTATION

ANGLO-AMERICAN PHARMACEUTICAL COMPANY LTD.,
GALEN WORKS,
DINGWALL ROAD, CROYDON *(LONDON).*

LICORICINE

ACTS LIKE MAGIC

Cures Coughs & Colds

and all Chest and Lung Troubles

Order a supply now, there is an increasing demand.

Showcards, Window Slips, &c., supplied.

"LICORICINE" is an article of wonderful merit. Wid spread recommendation and steady and persistent advertising ensures a rapidly increasing sale.

YOU stock it, of course?

The Minimum Prices are fixed at—

RETAIL Each.	WHOLESALE Doz.
10½d.	8/6
1/3	12/3
3/-	27/-

Carriage Paid. 5% Discount on orders of £6 and upward paid within 30 days.

MANDALL'S "RED BOTTLE" or ST. PETER'S OIL for

SPRAINS, GOUT, SWELLINGS, RHEUMATISM, STIFF JOINTS.

Proprietors—

MANDALL & CO., LTD.

MANUFACTURING CHEMISTS,

Tower Works, 17, 19, 21 Stepney Rd., Newcastle-on-Tyne

Telephone: Central 143.

KAY'S Compound Essence of Linseed

"LINSEED COMPOUND" (Trade Mark)

and their other medicinal preparations.

REVISED PRICES

Old Retail Price.		New Retail Price (P.A.T.A.)		Wholesale Price in Great Britain (P.A.T.A.)
11½d.	-	1/3	-	11/3
1/3	-	2/-	-	18/-
3/-	-	4/6	-	40/6
5/-	-	7/6	-	67/6
12/-	-	18/-	-	162/-

Revised price labels to attach to existing stock will be forwarded on stating approximate quantity of each size required.

Every bottle of Kay's "Linseed Compound" is manufactured under the supervision of, and is distributed to the public by, Qualified Pharmacists.

KAY BROTHERS LTD.
STOCKPORT

One of the very best sellers in *your* business, with a specially rapid sale, and well advertised.

WOODWARD'S "GRIPE WATER"

1/3

1/3 per Bottle

(Under the protection of P.A.T.A.)

NET PRICE:
1 gross, delivered free to your door, **£7.**

Your Profit is 28½ per cent.

For our Gripe Water bottles we pay **18/-** per gross, and pay carriage on all quantities of ½-gross and over; thus our empty returnable cases, if containing bottles, can be returned free of cost to you.

SOLE PROPRIETORS—

W. WOODWARD (1920) LTD.

79-81 Fortess Road, London, N.W.5.

Keep Your Eye Open

for Nujol salesmen.

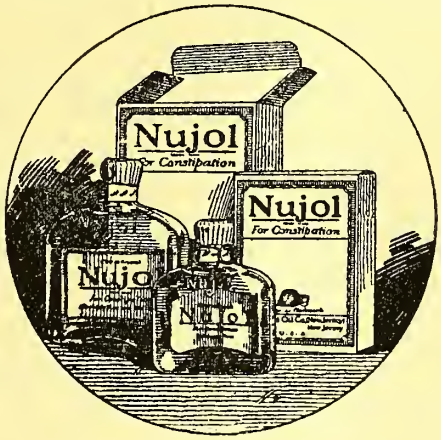
They are full of "pep" and have a real live free goods deal to offer you.

Nujol

TRADE MARK

FOR CONSTIPATION

Made by the Standard Oil Co. (New Jersey), New York, U.S.A.
If your wholesale house cannot supply you, write to the Sole Distributors for the United Kingdom—
The Anglo-American Oil Co. Ltd., Minerva House, Bevis Marks, London E.C.3.
For India: Muller & Phipps (India), Ltd., Bombay, Calcutta, Madras.



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Full details of Special Free Goods Offers, also advertising and window display materials on application to the

ANGLO-AMERICAN OIL CO., LTD.
Minerva House, Bevis Marks, London, E.C. 3

TWO SIZES ONLY.

DR. J. COLLIS BROWNE'S CHLORODYNE

Prices and Terms:

TRADE:

Minimum Retail Price	1/3	3/-
Price (*per dozen*)	12/3	30/6

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

Dr. J. Collis Browne's Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd. Proprietors,
117 Union Street, London, S.E.1

Musterole Indispensable as a First-Aid.

Millions of users have found that for colds, which should be checked at the very outset, as well as for bruises, pains, sprains, sore muscles, etc., Miller's Musterole is even more beneficial than they had anticipated. Musterole hardly ever fails to bring quick relief.

Doctors and nurses use and recommend this efficient first-aid in the handy, white jar, having found that in effect it is like a mustard plaster—without the muss of the plaster and without the blister.

A strong, consistent advertising campaign in a great number of newspapers and magazines throughout the United Kingdom has built for Musterole a steady demand which is growing larger week by week. You may profit with us by ordering a stock to-day. Prices and full information sent upon request.

Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C.4.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - MANCHESTER - LEEDS.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller packages according to requirements.

Inquiries are solicited for this article of **British Manufacture**, and buyers may rely that for quality and price, it will meet any competition.

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle. Wires "Cestrian Liverpool."

PREMIER CASTOR OIL

IN BARRELS
IN TINS & CASES
IN DRUMS

PREMIER OIL EXTRACTING MILLS Ltd.
STONEFERRY, HULL.

Also Manufacturers of

OILS — RAPE, SOYA, GROUNDNUT — MEALS

THE
BRITISH WAX REFINING
COMPANY, LIMITED.

WHITE BEESWAX
YELLOW BEESWAX
Slabs, Bars, Tablets or Discs
CERESINE WAX
Bleached Carnauba Wax
Carnauba Wax Residues

All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY

Registered Office:
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OILS AND GREASES
PARAFFIN WAX
WHITE OILS
PARAFFIN LIQUID
STERNS LTD.
AD 80. Royal London House,
FINSBURY SQUARE, E.C. 2.

TECHNICAL AND MEDICINAL WHITE OILS.
PETROLEUM JELLIES.
PARAFFIN WAXES.
NEUTRAL OILS.
Debloomed and Undebloomed.
PALE & RED LUBRICATING OILS.
CYLINDER OILS.
W. J. SMITH, *SOLE EUROPEAN REPRESENTATIVE,*
THE JAMES B. BERRY'S SONS CO. Inc.
110 Cannon Street, London, E.C. 4.

The BRYTSTELE BATH
For SAFETY RAZORS.
Outfits: Price 3/6 each: 32/- doz.
Solution only: 4-oz. Bottle, 1/6 each; 11/-.doz.
" " 10-oz. Bottle, 3/- each; 28/- doz.
Orders value £2, carriage paid, England & Wales.
" " £5, " " Scotland & Ireland.
Brytstele Inventions, Limited,
26 Horfield Road, BRISTOL.

PETROLEUM JELLY
ALL GRADES.
GUMS. WAXES. DEXTRINE.
W. M. Kidston & Co., 43/45 Great Tower St., London, E.C. 3.
Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.
WHO INVITE INQUIRIES.

METHYLATED SPIRIT

OILS AND CHEMICALS

Buy from one of the oldest houses in the trade.
Write for Prices. *Established 1794.*

SAMUEL THORNLEY, Ltd., Birmingham.

ADEPS LANÆ

B.P.

"ULTRAVI" Brand.

The Latest & Best.

— Inquiries Invited. —

THE

C.V.O. Chemical Works,

LIMITED,

Petersham Road,

RICHMOND (SURREY).

LANOLINE, B.P.

K. MALMBERG,

110 Cannon Street,
LONDON, E.C.4.

AND AT NEW YORK.

Telegraphic Address: "Obtempero, Cannon, London."

Telephone No.: City 6321.

EUCALYPTUS OIL

B.P. 70/80 %

OLIVE OILS

All Descriptions.

LIQUORICE

Block and Sticks.

CASTILE SOAP

White and Mottled.

COD LIVER OIL

Medicinal and Cattle.

WE ARE NOW MAKING SPECIAL OFFERS OF ABOVE.
: : WRITE TO US FOR SAMPLES AND PRICES : :

STRICTLY WHOLESALE.

F. CHIESMAN & CO.,

59 ST. MARY AXE, LONDON, E.C. 3.

Telephones:
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Telegraphic Address:
"PALUSTRIS, LED, LONDON."

AND AT

LIVERPOOL, GLASGOW, BRISTOL, ETC.

BRAND'S ESSENCES

OF

BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.8

VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic. i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.
VITAMOGEN stands alone as a means of supplying the Vitamines — an entirely new food element.
VITAMOGEN is packed in two sizes, 2/9 and 5/9, obtainable from all the principal wholesale houses.
Literature on VITAMINES will be sent on application to:

24-26 HOLBORN, LONDON, E.C. 1

Vitamogen LTD.

CHEMISTS!

When the DOCTOR forbids his patient to eat ordinary bread, and recommends **ENERGEN GLUTEN BREAD** in the diet, **CAN YOU SUPPLY** when asked?
ENERGEN GLUTEN BREAD is recommended by the Medical profession in the treatment of DIABETES, INDIGESTION, OBESITY, GOUT, etc.

Light, crisp, delicious rolls.
Packed specially for Chemist's trade.
INQUIRIES INVITED.

"ENERGEN" FOODS CREATE STRENGTH AND ENERGY

The only Gluten Bread that fulfils the doctor's requirements.
The most palatable and nutritious Gluten Bread on the market. Keeps perfectly.

Chemists who can supply ENERGEN BREAD obtain a GOOD PROFIT.

THERAPEUTIC FOODS CO.
19c Roundwood Road, Willesden, N.W.10.

VITMAR

The Medical Profession are recommending VITMAR for delicate Children and Invalids.
If you do not yet stock it your wholesaler will supply you.

Manufacturers—
CALLARD & CO., Food Specialists,
74 Regent Street, LONDON, W.1.

"GLACIALINE"

The Original and Most Effective Food Preservative

The only Food Preservative that has ever been publicly awarded Gold and Silver Medals and Certificates of Merit for Purity and Harmlessness.

TRADE MARK

By Royal — ANTITROPIC Co. TRADE GLACIALINE MARK — EST^D A.D. 1876 — Letters Patent

WASTE·NOT·WANT·NOT

REGISTERED.

Full directions for use enclosed in every package.
Packed in 6d. and 2/- Packets and 2/3 Canisters.
FAVOURABLE TRADE TERMS UPON APPLICATION TO THE
Sole Proprietors and Manufacturers:

BURTON, BAKER & CO.
16 EASTCHEAP, E.C. 3.

YOUR OWN PROPRIETARY LINE! READY TO SELL!!

THIS attractive two-colour label, with own name imprinted and showcards to match, is reserved to one Chemist only in each locality.

The design is also available for Exporters covering territory not already reserved.

We pack in cartons, composite containers and tin canisters (plain or with own labels affixed free), and in BULK for own packing.

QUOTATIONS FOR TINS OR TONS UPON APPLICATION.

GEORGE KING & COMPANY,
ALBION FOOD MILLS
1 and 2 SYCAMORE ST., LONDON, E.C.1.

Jensen's

ICE-REFINED

NORWEGIAN

COD LIVER OIL

IN TIN-LINED BARRELS.
GALLON DRUMS.
WINCHESTER QUARTS.

And in

5-oz., 10-oz. and 20-oz. Bottles

Always in Stock in London.

Sole Proprietors—

HERTZ & CO., 9 Mincing Lane, E.C.3

HALIFLOR

NATURAL FLORAL ESSENCES

For Making Quadruple

PERFUMES

And for Perfuming

TOILET PREPARATIONS

ALSO

ONE-DROP ESSENCES

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HERTZ & CO., 9 Mincing Lane, London, E.C. 3

Works and Laboratory: 20 Bevis Marks.

RUSSIAN

LIQUIPAR BRAND

LIQUID PARAFFIN B.P.

860/70, 870/80, 880/90,

In Original Barrels and Steel Drums of 40/50 Gallons, also

Odourless and Colourless

Brilliantine Oils

In 10-gallon Drums and Original Barrels of 40 gallons.

FOR IMMEDIATE DELIVERY.

For Samples and Prices apply to—

HERTZ & CO.,
9 Mincing Lane, London, E.C. 3.

WORKS & LABORATORY: 20 BEVIS MARKS.

FLOROZON

DISINFECTING SPRAYERS

AND

ESSENCES

For Hospitals, Sick Rooms, Nursing Homes, etc.

AND

Florozon Inhaler

(Patent No. 110718).

CHLORIDE of AMMONIUM.

For Nasal Catarrh, Bronchitis, Chest Complaints and Asthma.

Sole Proprietors:

HERTZ & CO.,
9 Mincing Lane, London, E.C. 3.

Works & Laboratory: 20 Bevis Marks.

Tel phone: 10607 Central. Telegrams: "Freshness, London."

The Nutrient Laxative

Obstacles to Nutrition

MANY foods contain a large quantity of flesh-forming and energy-promoting substances, but where the organs of digestion and excretion are unable to work to their full capacity little benefit is derived from the food. Indeed in many cases, as the Physician will recognise, bulky foods aggravate the condition:

(1) By forming further accumulations in the bowels.
(2) By overweighting the intestine and dragging it out of place.
(3) By the production of poisons from excessive bacterial activity.

Overcome by Virolax

These difficulties are met by Virolax, which combines the nutritive properties of Virol (egg, bone marrow and malt extract) with the laxative properties of liquid paraffin.

An important feature of Virolax is that in combining these two components the paraffin becomes so finely emulsified that the uncertain action of paraffin in its ordinary state is entirely avoided.

Virolax feeds while it relieves and is therefore in a category apart and so pleasant in flavour that it may be taken with the greatest benefit by children or adults as a laxative nutrient in all cases of irregularity so apt to tend to bacterial poisoning.

Virolax is packed in 4 oz. and 16 oz. tins at 1/- and 2/8, and is supplied to the Trade in one dozen boxes at 10/- and 27/- per dozen. Terms: £3 orders carriage paid, less 5%. On orders over £5 an extra discount of 5% is allowed on condition that window display is made. These terms will also apply to combined orders for Virol and Virolax to the value of £3 and £5.

Virolax

(Registered Trade Mark).

Show cards and advertising material on application.

VIROL, Ltd., 148-166, Old Street, London, E.C.1.

CARVER'S
TONIC SALTS

A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Gives Renewed Health :: and Vigour. ::

Attractively packed.
Shows 50 % Profit to you.

Price in gross lots, per **100/-** gross.
Carriage Paid.
Less Special Stocking Bonus of 5 %

A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

4 oz. Size Retailed at 1/-

Sole Proprietors—
JOHN CRAMPTON & CO. LTD. DEANSGATE, MANCHESTER.

PURE ORANGE WINE
A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—
PRESTON'S LIVERPOOL DISTILLERY Co. Ld.
The Largest Makers in the United Kingdom
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

MASON'S EXTRACT OF HERBS

can be made up successfully with Treacle.

Please apply for supply of descriptive bills for distribution or counter use, to

Newball & Mason
NOTTINGHAM.

ESTABLISHED 135 YEARS.

R. J. FULLWOOD & BLAND'S

TRADE MARK.

WORLD-RENOWNED
Dairy Preparations
command the biggest sale in Great Britain and Ireland, and are used and recommended at the PRINCIPAL DAIRY INSTITUTES.

ANNATTO RENNET

"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, &c.

31, 33 & 35 Bevenden St., Hoxton, London, N.1
And Rennet Works, Ellesmere, Salop.

The Finest Quality Aerated Waters are made only with the Finest Quality
ESSENCES

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Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
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A. Boake, Roberts & Co. Ltd.
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Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One Wine-glass after the two principal Meals.

Recommended by—
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"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Rostan Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

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(Wine Licence required)

Prices: **Small Size** (12 to Gallon) **29/6** doz.
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WITH QUININE

(Can be sold by Chemists without Licence)

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We import the Wine specially for the manufacture of this Beef and Malt Wine, and offer a sound and well-flavoured product at the cheapest possible price consistent with the excellent quality.

We have a variety of labels, and would be pleased to submit same to you for your selection, together with a sample of the Wine.

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[See pp. 440-1, "C. & D." Diary, 1920.

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Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments.
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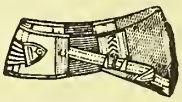

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and Druggists' Sundries.

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PRICES:

Hospital pattern	per doz. 28/-	60-seconds, lens front ...	per doz. 38/-
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Each one in metal case.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for new illustrated PRICE LIST, post free for the asking.

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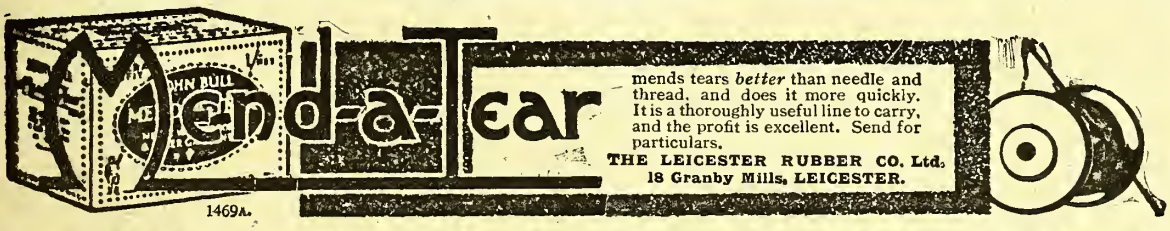

mends tears *better* than needle and thread, and does it more quickly. It is a thoroughly useful line to carry, and the profit is excellent. Send for particulars.
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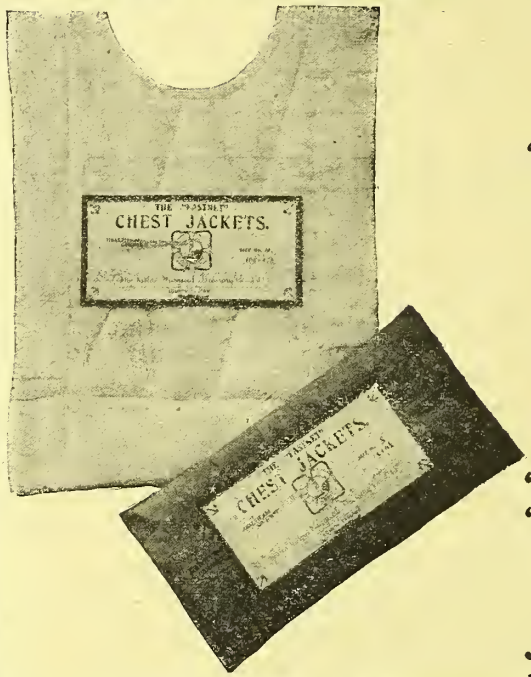

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Size No. 1	...	8½″ ×	7″	... 22/-	dozen
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Similar lines: Nos.

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6×10	10×8	12×8	12×10
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GREY PLUSH COVERS

2/-	2/4	2/9	3/3 ,,

LINT WHITE "LAMBSKIN" BACK
1 lb. 5/3 7 @ 5/- 14 @ 4/9 28 @ 4/6

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DEVICES FOR ALL FOOT AILMENTS

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CASH WITH ORDER.

"It's in my nose—you can't see it—I can't feel it—only its wonderful effects."

"CATARONOL" OUTFIT

for Colds, Catarrh, Bronchitis, Stuffed Nostrils, Loss of Hearing, Hay Fever, Adenoids, Headache, Sore Throat, etc. etc.

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for Chronic Bronchitis and Asthma.

TRADE DISCOUNT 20%

The Appliance is in use in the leading Hospitals. Numerous testimonials have been received from eminent users.

Press Advertising commences shortly, and all Chemists, Departmental Stores, etc., should obtain a stock in readiness.

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An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2¾, and 3½ inches wide. **Excelsior Crepe Abdominal Binders.**—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

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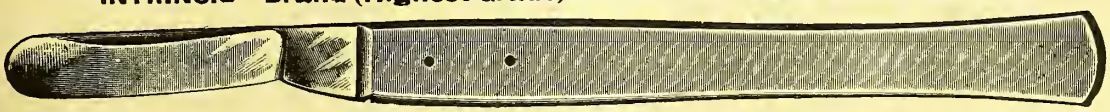

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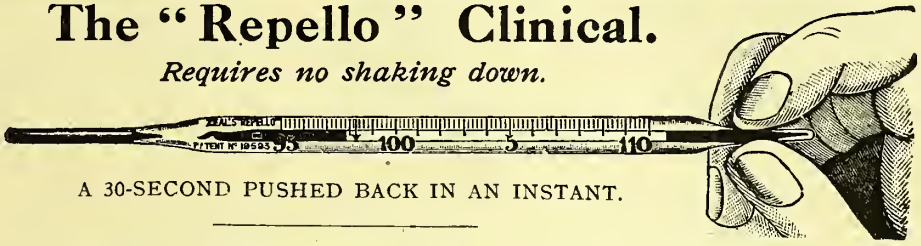

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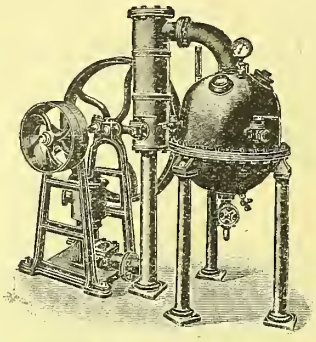

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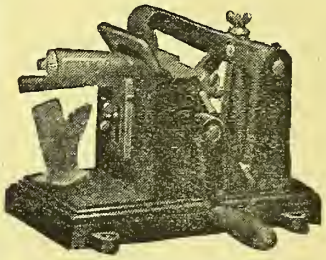
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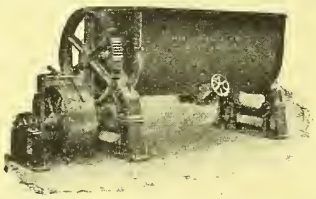

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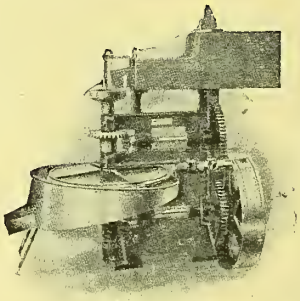

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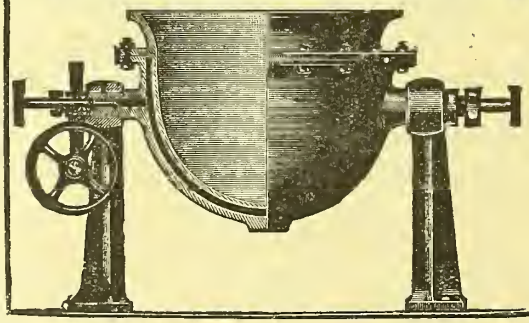

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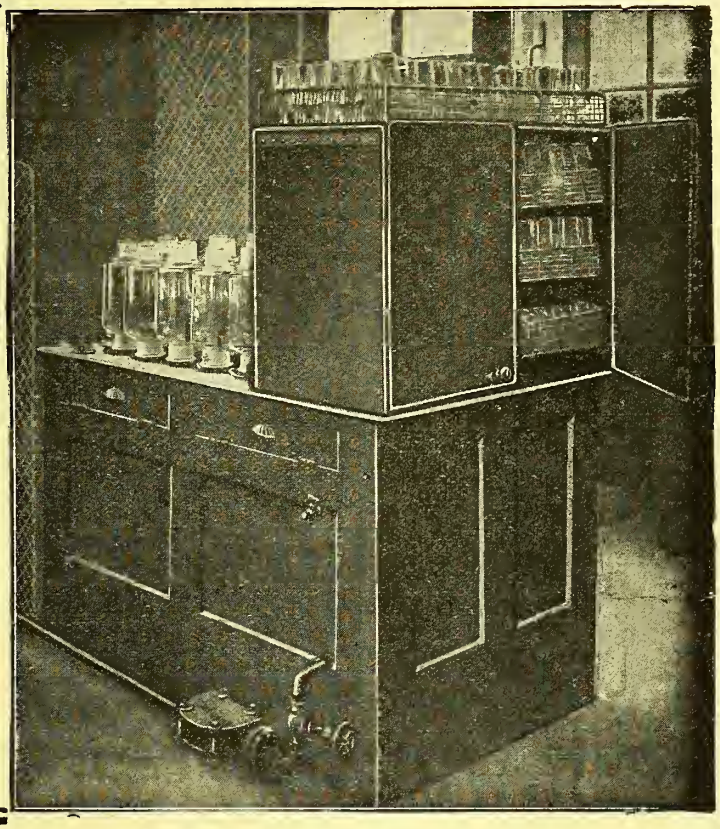

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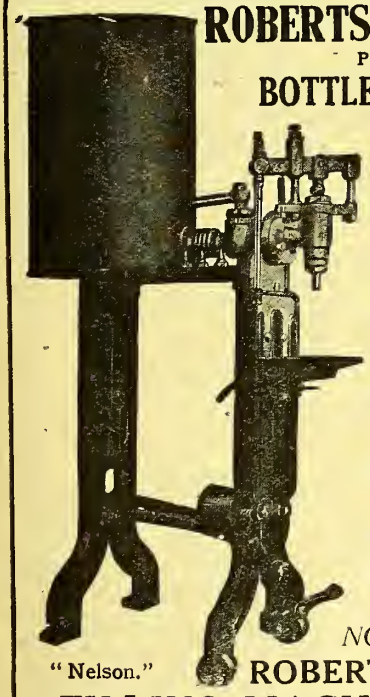

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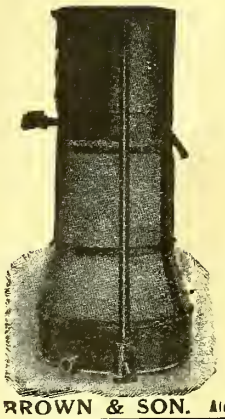

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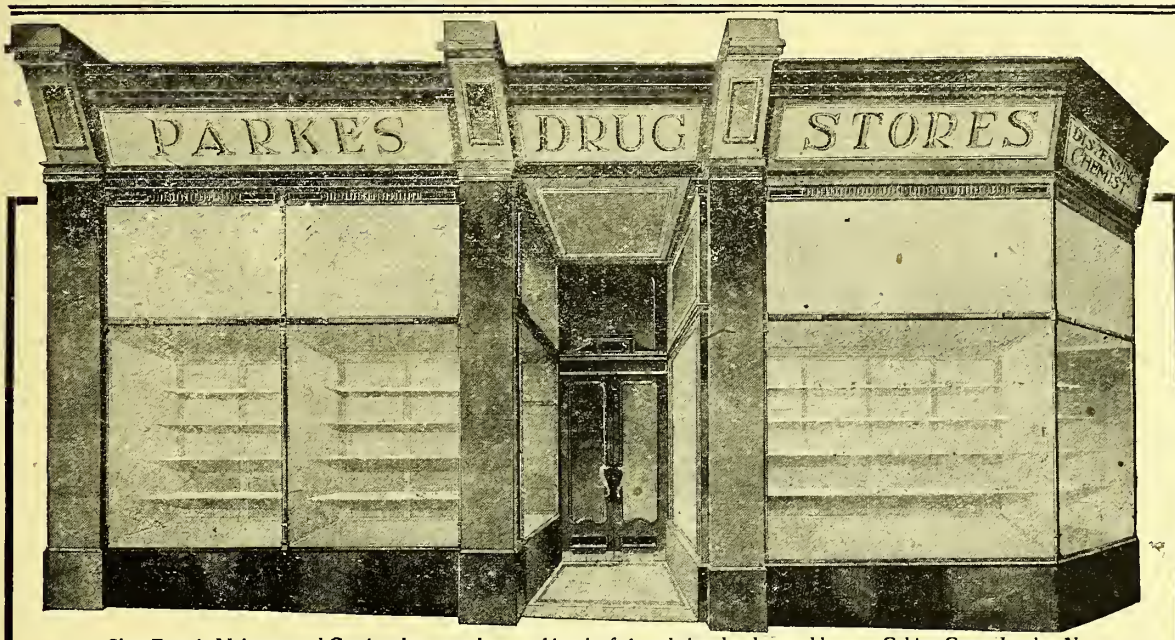

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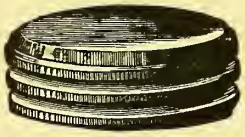

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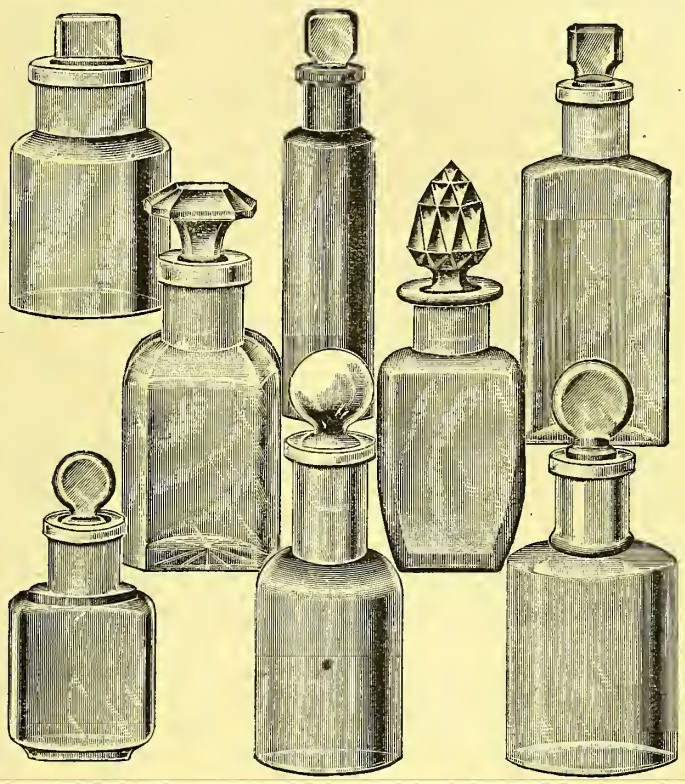

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Mr. H. J. Morgan, Chemist, Kimbolton, writes :— July 27, 1920. "People are again asking for 'Rodine' after having tried the new much-advertised so-called Rat Poisons. They say that they want 'Rodine.'

NOT THAT NEW-FANGLED STUFF

that the Rats thrive on. Some people go as far and say that the novelties in Rat Poison entice the Rats and Mice and then feed them, as they have watched them take it away, none being found dead, but apparently increase in numbers."

MUST HAVE "RODINE"
The Rapid Rat Remover

It yields nearly 100% profit.
Get it direct from the Maker,

HARLEY, Manufacturing Chemist, PERTH, Scotland.

WHITAKER & Co.'s PAGE

"The LUTON HAT DYE I purchased was perfect."— STREATHAM COMMON.

GLOSSY SERIES also supplied if desired.

"I am very pleased with the GLOSSY HAT DYE. It has answered splendidly."— NOTTINGHAM.

LUTON
STRAW HAT DYES

Special NON-INFLAMMABLE SERIES for Export.

From a Dealer :—
"I find your dyes sell well—in fact, better than any others I have had."— KNEBWORTH.

WHITAKER'S UNIVERSAL FABRIC DYES
WITHOUT ACID & WITHOUT PREPARATION

From a User :—
"I think they are splendid."— KIDDERMINSTER.

Retail at 2d., 3d. and 6d. (Packed in neat cardboard boxes of 1 dozen.)

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

Write to-day for Complete Price Lists and Patterns to

WHITAKER & CO., Colour Works, KENDAL

Telegrams: "Dullette Kendal." Telephone: No. 214.

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Telephone: Gerrard 1774. Established 1878.

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Chemical and Experimental Glass Blower and Thermometer Maker.

Works: 47 Red Lion Street, LONDON, W.C.1

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SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

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With inscriptions in any desired tint; also Plain or Embossed.

"A distinction all their own."—*C. & D.*
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These Cachets are especially adapted for Headache, Neuralgia and other powders.

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In 17 Sizes to fit the various types of Cachet Machines.

SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 10½d. 1/4 size, per post 1/7; 2/6 size, per post 2/9; 3/9 size, per post 4/3; 8d. size 6/- doz.; 1/4 size 12/- doz., 2/6 size 24/- doz. 3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

Headquarters for **Photographics**

Chemists should write us for PRICE LIST and full particulars of all Photo requisites.

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J. W. PINDAR & CO. Druggists' Engineers.

PILL MACHINERY (Hand & Power).

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Percolators, Ointment Mills, Drug Mills, "Eternite" Ovens, Tablet Compressing Machines, &c.

Other Machinery for Manufacturing Druggists and Chemists.

Cachet Filling Apparatus for French and Moorstadt series.

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produced in Artistic & Refined Colorings for advertising Christmas Presents.

LIST SHOWING 100 DESIGNS FREE.

DUDLEY & CO. HOLLOWAY RD LONDON. N.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London N. 1.

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Chartered Patent Agents.

Patents, Designs and Trade Marks.

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AND SCALLOPED EDGE FACE CHAMOIS.

All Grades made.

Buy Direct. Best Possible Value. Send for Price List.

F. B. MEASURES & CO., Myrtle Works, Sandon St., NOTTINGHAM.

2d. HERBS

Insist on "Castle Brand."

MEDICINAL : CULINARY

16/- PER GROSS.

Special Terms for Wholesalers.

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ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller, Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, **2d.** each.

Wholesale Prices on application. Sample Box 1/6.

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"BRILLIANIA"

The world-famed Enamel for Grey and Faded Hair. Perfectly natural Shades. Absolutely safe for sensitive skins. No Irritation. No Soreness.

3/6 size **37/-** doz.; 6/6 size, **68/-** doz.; 12/6 size, **132/-** doz.

Largely Advertised. Ask your Wholesaler.

HEMPLE Ltd., 8 THE BROADWAY, BROMLEY, KENT

MOTHER WILL BUY IF SHE SEES IT.

of course she will. What mother doesn't always like her kiddies to look their best in health and appearance.

ANTHONY LEIGHTON

BEST SHAMPOO FOR CHILDREN

Keeps little heads beautiful and parasite free. Always advertised for you too. Non-poisonous.

LET US SEND YOU AT ONCE.

One 6 doz. self-selling carton and 1 doz. Bonus with carrier bags, wrappers, show bills, cards &c. (It won't be your first order!)

4/- PER DOZ. 43% PATA. 6D EACH.

LEIGHTON LABORATORIES 35 GRAYS INN ROAD, W.C.1.

PER 4/- DOZ. **Quin Queenna** BETTER THAN A SHAMPOO P.A.T.A. 6D EACH

best 'Hair Grower' and 'Waver' known, thousands say so and our ads: tell customers, chemists can supply. Have you yours on show?

Will send at once 6 dozen with 1 dozen Bonus and window material Carriage Paid.

43%

Any number of chemists sell 1 gross a month and you can do the same

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Old Swan Lane, E.C.4.

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LYSOLID

The Solid Lysol

Prov. Pat. No. 16799.

IS EQUAL TO THE FORMER LIQUID LYSOL BUT HAS ADVANTAGES.

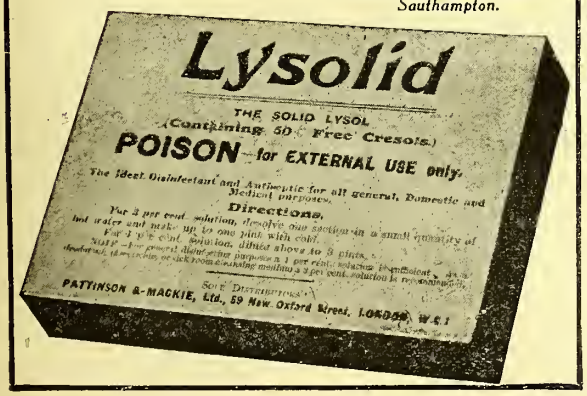
You are not humbugged by oozing corks, messy or broken bottles. Lysolid is packed in handy sections, one of which dissolved in a pint of water makes a 3% solution.

Lysolid is meeting with a good reception, presaging healthy sales and good profits. Have you tried Lysolid? It means bigger profits and a more satisfactory product.

Write to-day for free sample and trade terms—there is no obligation in doing so.

PATTINSON & MACKIE, Ltd.
Albion House, 59 New Oxford St.
LONDON, W.C.1.

Manufactured by M.B. Laboratories, Ltd., Southampton.



The WINNING LINE for WINTER TIME

Cordials and Syrups as Winter-time Drinks have had to give way to the new HOT FRUIT DRINK...

QUENCHOLEEN HOT CUP

Make a prominent feature of it for Xmas-time—its unique qualities will attract your customers, and win their custom permanently.

AS FOR PROFIT—study the following figures. They speak for themselves!

Costs:

	£	s.	d.
6 dozen Cartons (each contains 13 drinks) @ 16/- per dozen	4	16	0
Less C.W.O. 7½%		7	2
	£4	8	10

Sells for:

If sold single packets @ *2d.*	7	16	0
If sold in Cartons	7	4	0
REALISES (Minimum) ...	7	4	0
COSTS	4	8	10
	£2	15	2

Do not delay —— Order to-day!

PATTINSON & MACKIE, Ltd.

Albion House,

59 New Oxford St., LONDON, W.C. 1

Sole Manufacturers: Violiv Manufacturing Co., Ltd., Edinburgh

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WE SPECIALIZE IN

SAFETY RAZORS

BLADES. STROPPERS.

Each pattern of

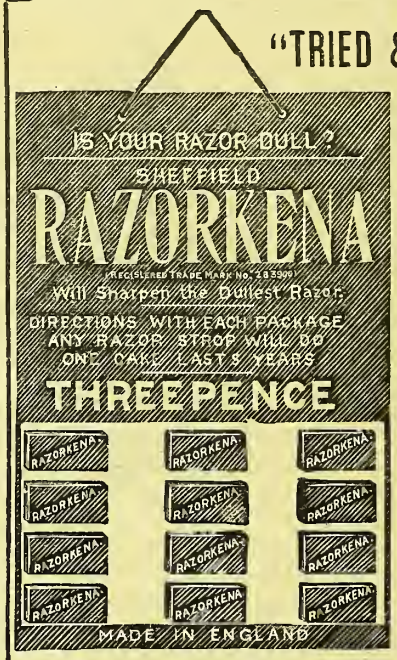
Every Standard Make

from stock, at Manufacturers' prices.

List on Application.

H. TILLNER, 172 OXFORD ROAD,
READING, BERKS.

THE "TRIED & PROVED"
Razor Paste



Sells at Sight.

Stocked by **SANGERS,** Martin Phillips & Co., Ltd., and leading Warehousemen.

Send P.O. 6/6 for Sample Parcel, post free, containing—
1 card 1d. size
1 card 3d. size
1 card 6d. size

with name of Wholesale Supplier to—

London Office: Finsbury Pavement House, Finsbury Pavement, E.C. 2.

E. LLOYD,
63 WEDNESBURY ROAD,
WALSALL.

YOUR CUSTOMERS WILL ASK for the

RF RAZOR

THE action of the rollers is delightfully smooth and soothing to the skin, and effects a perfectly clean and refreshing shave with ease and rapidity. It is easily cleaned after use by rolling over a dry towel.

THE

Rollo-Foam
SAFETY RAZOR

All British made, packed in heavily nickel-plated case, together with 12 blades and two plated blade cases, Complete. **21/-**

WRITE FOR TRADE TERMS—
LEWIS REGNARD & CO.
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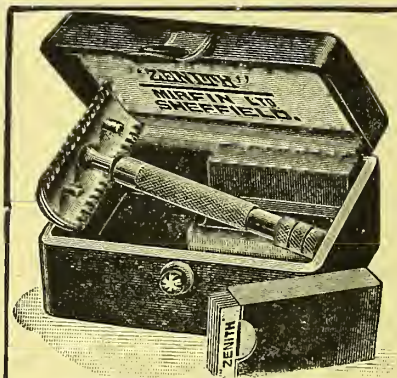


Loodon Agents: J. R. BEDFORD & Co., 6 Holborn Viaduct, London, E.C 1.

"ZENITH"
SAFETY RAZORS

WRITE FOR TERMS.

Made in seven styles on scientific lines.
Perfect curved top Silver Plated.
High-class Finish.

J. MIRFIN & SON, Ltd.
32 Arundel Street,
SHEFFIELD.

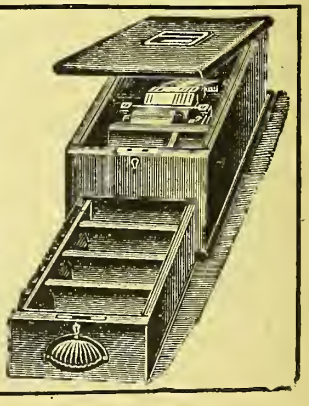
THE "NORTH-SEVEN" CASH TILL,
IMPROVED MODEL.

Made from well-seasoned wood, polished Mahogaoy finish. Size 19 x 10 x 7½ in. Both lid and drawer fitted with lock. Recording paper 3¾ in. wide. Automatic lly rings warr ng bell each time cash drawer is opened.

Price £5. 15. 0 each.

The "North-Seven" Till Coils, for use in above Tills, 6/- doz.

Sent on 14 days' trial, on receipt of Cash or two Wholesale Trade refereoces.

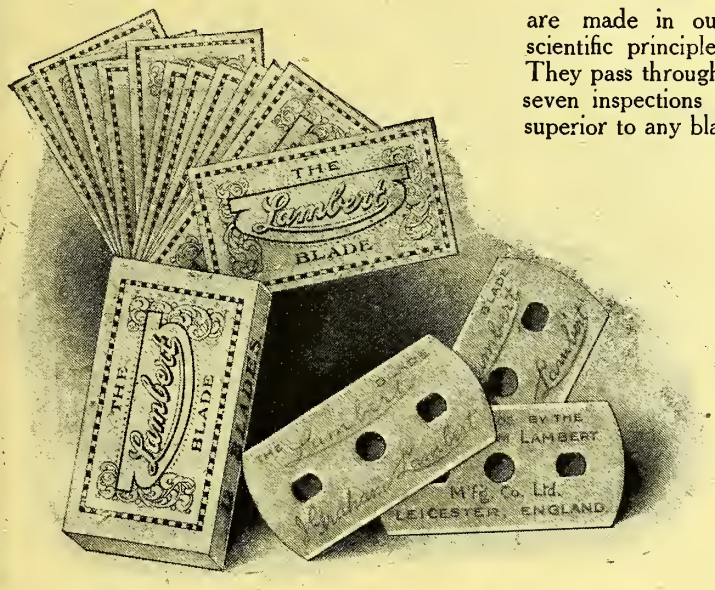


DUDLEY & COMPANY,
Holloway, London, N. 7.
City Showrooms:
25 WOOD STREET, E.C. 2

4/- PER DOZ.

THE *Lambert* Blades

are made in our Leicester Factory on the latest scientific principles by specially designed machinery. They pass through twenty-three distinct processes and seven inspections during the manufacturing, and are superior to any blade on the market.



Sales are being accelerated by a carefully planned advertising campaign commencing immediately in the *Daily Mail* and other widely circulated newspapers.

Ask your wholesale house for supplies, or, if you experience any difficulty in securing stocks, write to us direct. **Showcards and trade terms sent free on request, also particulars of the Lambert Safety Razor Outfits, selling at 17/6—a fine line to handle.**

Mr. Graham Lambert was for several years superintendent of works for the Gillette Safety Razor Company, Leicester. The Lambert Factory has been equipped with the most modern machinery.

GRAHAM LAMBERT MANUFACTURING Co. Ld.
Nottingham Rd., LEICESTER.

MADE IN LEICESTER, ENGLAND.

Support Home Industry

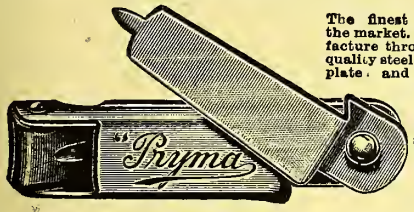
A GOOD SELLING PROPOSITION:

50% ON COST - 33⅓% ON SALES

BY SELLING

'Pryma' Nail Clippers

(BRITISH MANUFACTURE)



The finest Nail Clipper on the market. British manufacture throughout, of finest quality steel. Heavily nickel-plate, and perfect finish. Delivery from stock, fastened 12 or 24 on card. Sells at sight, and gives satisfaction to Chemist and customer alike.

Trade Price - - **16/-** doz.

Write to-day for Sample Card.

To be obtained from all the leading Factors, or from the Proprietors,

WARMINGTON, TURNER & CO.

11 QUEEN VICTORIA STREET,
LONDON, E.C. 4.

Telegrams: "Oewarmitur, Cannon, London." Phone: Central 7851.

An Opening Wedge to Better Trade.

GOOD PRINTING pays big dividends to every business house. It is not an expense but an Opening Wedge to better trade. There is not a single chemist or druggist in the United Kingdom who would fail to benefit by the judicious use of well-printed labels, literature, etc., such as we can supply at an economical cost.

Ask for Samples and Estimates

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(Exors.: G. F. Berry and J. G. Driver),

Producer of GOOD Printing,

PENDLETON, MANCHESTER.

Telegrams: "Reindeer, Manchester." 'Phone: City 1102.

Telephones:
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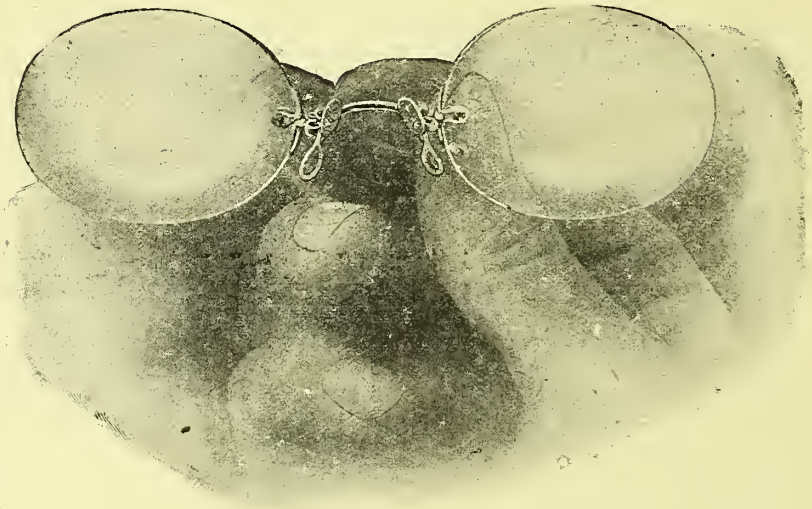
NON AURI SED OCULO

RAPHAEL'S LTD.

HATTON GARDEN, LONDON, E.C.1

FINGER-PIECE RIMLESS MOUNTS



IN

1/10 12-carat Gold Filled,

1/20 12-carat Gold Filled,

AND

1/30 12-carat Gold Filled,

For JUST what YOU WANT

IN

GLASSWARE

OF EVERY DESCRIPTION and FOR ALL PURPOSES

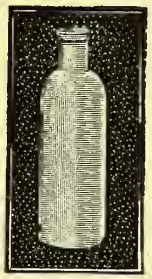
JULES LANG & SON hold huge stocks in the Provinces ready for immediate local delivery, and in their North and West London Depots approximately

TEN THOUSAND CASES!!!

are available. No other firm can claim to hold such a general stock in the Kingdom. NEARLY all your needs can be met on request. Limes, Medicals, Vials, Tobins, Mexicans, Cheltenhams, Male and Ear Syringes, Kalis, Opal Pomades, Flint Pomades, Smelling Salts, Panels, Cannons.

6-dram., ½-oz. and 1-oz. Green Vials.

Kali

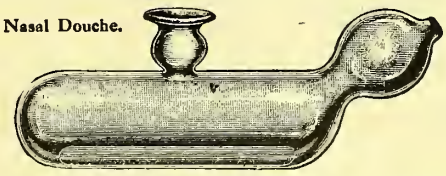


Lime

Medical

Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels and many other lines in Chemical and Laboratory Glassware.

Nasal Douche.



WHOLESALE ONLY. NO RETAIL FIRMS SUPPLIED.

JULES LANG & SON

CHARLTON WORKS:

Charlton Place, Islington - - LONDON, N. 1.

Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."

Nothing Succeeds like Success!

That is why we are so insistent in emphasising the success of

Our Distributive System

The tale of the present year's trading is a series of broken records—but that is nothing new with us ; when we cease breaking our own records we're going into the garden—to keep fowls !

May, Roberts

lead, others follow afar off.

The explanation of our record-smashing existence is that by taking much thought we succeed in giving the Chemist a better Service than he can get elsewhere.

PROPRIETARIES. SUNDRIES. DRUGS.

Price List and Terms on Application.

MAY, ROBERTS & CO., LTD.

7/13 CLERKENWELL ROAD, LONDON, E.C. 1.

and at Dublin and Plymouth.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

NOVEMBER 27, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

THE CHEMIST AND DRUGGIST SUPPLEMENT
REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies: 6/- for **50** words; every additional **10** words or less, **6d.**

SITUATIONS OPEN: 6/- for **40** words; every additional **10** words or less, **6d.**

SITUATIONS WANTED: 2/- for **18** words; every additional **10** words or less, **6d.**

Legal Notices, Tenders, Auctions, and all specially spaced announcements, **1/3** per nonpareil line (12 lines = 1 inch single column).

Miscellaneous (Wholesalers') Section, for odd and second-hand lots: **10/-** for **60** words; **1/-** for every additional **10** words or less.

EXCHANGE COLUMN (for Retailers, etc.). **Twopence** per word, minimum **2/-**.

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, **at a charge of 1/- extra** for each advertisement.

PAYMENT.

All advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4.

Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words).

EARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements ntended for the Supplement must each us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

1.—LONDON (Northern Suburb).—Ready-money Business; re-rns between £30 and £40 per week; gross profit about 50%; ngle-fronted shop, situate in close proximity to railway station; mfortable residence, with garden; rent £35 yearly; price ,200.

2.—LONDON, W. (Suburban).—Cash Retail and Photographic usiness, with Rexall and Kodak agencies; returns approach 2,000 per annum, at good prices; double-fronted shop; estimated lue of stock and fixtures, £1,000; held on lease at a moderate ntal; price £1,400, or near offer.

3.—LONDON, S.W.—General Retail and Dispensing Business; turns, present rate, £40 per week; *gross profit* 46%; lock-up op; moderate rental; new lease can be obtained; price £1,400; 800 cash, and balance by instalments.

4.—LONDON, E.—Cash Drug Store; established upwards of years; returns £936; profit £425; double-fronted shop, with sidence attached; moderate rental; price £400.

5.—SOUTH YORKSHIRE.—Neglected Business; returns last onth £100; *net profit* 25%; lock-up shop, with room at back; nt £30 per annum; further details on application.

6.—ONE HOUR FROM TOWN.—Retail and Dispensing Business; good middle-class trading; returns £2,500 per annum; ening for extended trade; comfortable residence; held on ase.

7.—MANCHESTER (Near).—General Retail Business, with ptical connection; in present hands 20 years; returns £2,500; t *profit* £750; single-fronted shop; held on lease at a rent of about £60; terms, valuation of stock and fixtures, and sum for goodwill to be arranged.

8.—KENT.—Good-class Retail and Dispensing Business, situate in centre of good market town; returns over £50 weekly, at full prices; there is a residence, with private entrance, bath-room; valuation terms entertained.

9.—SOUTH COAST.—Old-established Business, mostly own Proprietaries and Prescribing; returns last year between £11,000 and £12,000, *at excellent profits*; further details on application.

10.—ESSEX (Health Resort).—General Retail and Dispensing Business, chiefly ready money; returns between £6,000 and £7,000 per annum, at good prices; attractive, well-fitted shop, heavily stocked; price to be arranged.

11.—NORTHAMPTONSHIRE.—General Retail and Dispensing Business; established many years; returns exceed £60 per week; *net profit* 25%; held on lease at a rental of £80; price to be arranged.

12.—NORTH OF ENGLAND.—Cash Retail Business; returns about £3,000, with scope for great increase under energetic management; low rent; new lease will be granted; terms, goodwill £200, and valuation of stock and fixtures.

13.—MIDLANDS.—Old-established Business, Wholesale and Retail; returns £10,000 per annum; *gross profit about* 33⅓%; soope for large increase; further details on application.

14.—SUSSEX (Health Resort).—Good-class Retail and Dispensing Business, situate in main road facing the sea; returns between £4,500 and £5,000 yearly; handsomely fitted shop, well stocked; investors with £3,500 at command can have particulars.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C. 3

Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

DEVON COAST.—Good-class Light Retail Dispensing and Photographic Business, in fine position; returns approach £3,000, with room for extension; modern fitted Pharmacy; splendid stock; valuable lease; low rent; house attached; price for early sale £300 and valuation, in all about £2,300.

BUSINESSES WANTED.

MESSRS. BERDOE & FISH have at the present time several clients desirous of purchasing Businesses within 100 miles of London, requiring cash from £1,500 to £3,000. Also in suburban London, £1,000 to £2,000.

We can guarantee quick sales with the utmost privacy; particulars received in strictest confidence. Terms sent on application.

ESTABLISHED 1870.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LONDON, E.—Vendor will accept £400 for early release; ready-money Drug Store; established many years; returns about £950; profit £450; rent 7s. 6d. weekly; everything is open to full investigation. Apply "Beta" (27/100), Office of this Paper.

LONDON, N. (Suburban).—Cash Retail Business; returns over £3,000; estimated value stock and fixtures, £1,000; lock-up shop; upper part let off, showing profit rental; lease 21 years; price, lease, goodwill, and stock, £3,000. Write "Hinton" (253/15), Office of this Paper.

LONDON, N.—Good-class Retail and Dispensing, with Photographic, in well-populated residential district; returns last year £2,300; scope for substantial increase; Rexall and Kodak Agencies held; splendid opening for Optics or Dentistry; good house accommodation, with vacant possession, at pre-war rental; held on lease; price required, £2,000. Apply 253/6, Office of this Paper.

CHEMIST and Druggist's Business, in Glasgow, Hillhead district; established over 50 years; Dispensing and General Retail; moderate stock and first-class furnishings and fittings; rent £50. Particulars from Wm. Jas. Mitchell, Writer, 48 West George Street, Glasgow.

CHEMISTS' and Druggists' Stores, facing London main line terminus; lease 24 years; rent £130; takings £4,300 p.a.; net profit £786 p.a.; vacant possession, 7 rooms above; excellent shop and premises; same hands 20 years; price for valuable lease, goodwill, £3,500, s.a.v. For further particulars call on Messrs. Bowyers, 69 Seymour Street, Marble Arch, W. 2.

HIGH-CLASS Retail and Dispensing Business, situate in the best part of a fashionable health resort on the South Coast, and returning between £4,500 and £5,000 per annum, at good prices; beautifully fitted shop and good stock; sea view. Apply "Alpha" (27/100), Office of this Paper.

MR. CHEMIST,

Do you know the value of your stock?

Altered Values of Drugs, &c., make Stock-Taking a Compulsory but WISE MEASURE. Furthermore, it must be priced WITH DUE REGARD TO PRESENT VALUES.

Before making arrangements, write me for estimates under my various schemes.

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CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
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Established over Half a Century.
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BUSINESSES FOR DISPOSAL (*continued*)

HIGH-CLASS, Retail, Dispensing, and Family, within 25 mil London; returns over £2,500, and steadily increasing; goo house, on lease; well stocked; health sole cause of sale; referenc to best houses; no agents; price £1,850. Apply 246/26, Office this Paper.

SPLENDID Fixtures, Fittings, and Stock for Sale, or could b sold as going concern on yearly tenancy; main street; sever good specialities; value of fixtures, fittings, and stock only aske Bailey, 20 Ebrington Street, Plymouth.

PARTNERSHIPS.

GENTLEMAN desires Partnership, or would join partner purchase of high-class Dispensing Business, with scope f good-class Retail; advertiser has had wide experience and co trolled large business; would consider complete purchase schem with part capital down and remainder as agreed. Replies, strict confidence, to 253/24, Office of this Paper.

LIMITED Company, manufacturing at present chiefly Toi Articles, with excellent works and motor power, wish meet gentleman who can introduce new lines for manufactu mechanical, medicinal, or otherwise; a suitable man, willing invest small capital, will be offered management, with view controlling interest later. "Yorkshire" (253/360), Office of th Paper.

PARTNERSHIP.—London Manufacturer of Fine Chemica having extensive premises and plant, is open to amalgam with Wholesale firm or entertain partnership; £6,000-£10,0 required. P.C.B. 38/14, Office of this Paper.

PREMISES FOR SALE.

FOR Sale with possession, valuable Business premises in co manding position in Strand; two shops, old-establisl Chemists, Boots and Shoes, offices; net income £550; lease years unexpired. Particulars, by letter, to Geo. Cosgrove, Da Inn House, 265 Strand, W.C. 2.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

AGENTS WANTED
With connection amongst Chemists, to introduce high-class lines of CONCENTRATED PERFUMES.
Write—EVANS, 154 Church Lane, Harpurhey, Manchester.

ARGENTINE AND URUGUAY.—Englishman, established 16 years in South America, with extensive connection amongst Wholesale Druggists, seeks representation of manufacturers of Drugs and Chemicals; important business assured to enterprising manufacturers. Write P.C.B. 35/30, Office of this Paper.

AGENT required for introducing "Liquid Ice," the famous remedy for Rheumatics, Neuritis, etc., as a side-line in the Southern Counties and South Coast towns. Reply direct to The Liquid Ice Co., Ltd., 100 Jermyn Street, London, S.W. 1.

AGENT, covering Southern Counties and Thames Valley districts, own motor, calling upon Chemists, Fancy Goods Dealers (good class), wishes further additional Agency; large established personal connection; terms, small contribution expenses, and commission, or only commission. Apply "Energy" (252/13), Office of this Paper.

GUMMED Printed Labels in perforated rolls; quick-selling side-line with Chemist, etc. Required (at once), Agents to sell on commission. Apply 249/14, Office of this Paper.

W. LEIBERG & CO., Amsterdam, Manufacturers of Pharmaceutical Glass Goods, require an active Wholesale firm to act as sole Selling Agents, either on own account or on commission basis; applications only considered from first-class firms; would also consider applications from Exporters for Sole Agencies for Colonies.

FOR SALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A MONEY-MAKING MONOPOLY, protected by Royal Letters Patent: Liquid Paraffin Confectionery (content up to 60%), simple or combined with Drugs, superseding messy Emulsions and Creams, delicious and portable; Patent and Registered Trade-mark for disposal at low figure. Write, Johnson, 35 Glencairn Road, Streatham, S.W. 16.

COMPLETE run mahogany-fronted Drawers and Shelving, 19' long by 11' high, containing 150 drawers; also window enclosure with 16 plate-glass shelves, standards, and brackets, plate-glass sponge case, three large pear-shaped carboys. Best offers, Reade Brothers, Wolverhampton.

FOR Sale, Contents and Fittings of Doctor's Surgery. Apply to Mrs. Harvey Bateman, Heath End, Blackheath, S.E.

STOCK of Drugs for Sale; property of Drug Merchant who has recently ceased to carry on business. May be seen by appointment on application to H. G. Wilson, 32 Theobald's Road, Gray's Inn, W.C. 1.

OLIVER Typewriter, No. 9; brand new; £18, carr. paid. Thomas, Chemist, 157 Cowbridge Road, Cardiff.

SALES BY AUCTION.

SALE ROOMS, 62a ALDERSGATE STREET, LONDON, E.C. 1.
(Entrance in Hare Court, opposite the Manchester Hotel.)
10 TONS HIGH-CLASS CONFECTIONERY
(Chocolates, Fruit Tablets, Crystallised Mints, Acid Drops, Peppermints, etc.),
390 GROSS TABLETS HARRIS'S PERFUMED TOILET SOAPS,
which will be Sold by Auction by

MR. FRANK G. BOWEN, at his SALE ROOMS, as above, on THURSDAY, DECEMBER 2nd, 1920, at ELEVEN o'clock precisely.

On view day prior. Catalogues may be had of the Auctioneer, as above.

BUSINESSES WANTED.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LANCASHIRE (Manchester district preferred).—Pharmacist, small capital, desires to purchase small Chemist Business or Drug Store, preferably with living accommodation; would consider working partnership, with view to succession. Details in confidence to 253/7, Office of this Paper.

BUSINESS wanted; London or suburbs; one capable of development preferred; cash available up to £1,000; good living accommodation essential. Apply 253/11, Office of this Paper.

DRUG Store wanted, London, by ex-soldier; all replies will be answered, and no time lost in fixing up; cash available; full particulars in confidence. Write 245/10, Office of this Paper.

PHOTOGRAPHIC Chemist's Business wanted, London, with living accommodation; price up to about £1,000, all at; must be genuine. Full particulars to Beames, Lowther & Co., Business Transfer and Estate Agents, 56 Trafalgar Road, Greenwich, S.E.

QUALIFIED gentleman, young, seeks post as Manager or Assistant with a view to purchasing the business; coast preferred, but not essential; progressive post in Wholesale considered; had good experience in large agricultural district. Reply to 252/14, Office of this Paper.

RETAIL and Dispensing Business required for cash; neglected one not objected to; good house and accommodation essential; Southern Counties or Coast preferred; prompt cash for quick sale by year-end; fullest particulars in confidence. "T. A. D." (252/20), Office of this Paper.

SMALL Drug Stores required, in or near London; neglected one not objected to; or suitable vacant shop; accommodation preferred, but not essential. Apply, with full particulars, to R., 46 Hathaway Road, Croydon.

WANTED, good Mixed Drug Store in nice town; good living accommodation and garden; management with early succession considered; a neglected branch would do if in live district. Particulars, in strict confidence, to "L. J. W.," c/o 143 Midhurst Road, West Ealing, London.

WANTED, good-class Retail Business; cash available; must stand every investigation; good turnover essential; any county. Send full particulars in first letter to "Rhei," 60 Church Road, Tilbury Docks, Essex.

WANTED (now or in near future), a good, sound Business, with or without Optics, in Bournemouth or immediate neighbourhood; partnership in a really large one would be considered. "F.S.M.C." (254/11), Office of this Paper.

PREMISES WANTED.

WANTED, good-sized Laboratory in London or suburbs for organic research, with or without fittings. Apply P.C.B. 37/2, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BATH.—Junior Assistant (at once), principally for Dispensing. Apply in own handwriting, stating age, experience, and salary required, to Tylee & Cooper, Dispensing Chemists, 7 Bridge Street, Bath.

BRISTOL.—At once, Junior (outdoors) wanted for Retail and Dispensing; short hours; no Sunday duty. Apply, with full particulars, age, references, salary required, and enclose photo, if possible, to Dunford, 8 North Street, Bedminster, Bristol.

HUDDERSFIELD District.—Reliable, qualified Manager wanted for well-established business; good, permanent post for capable and energetic man. Reply fully as to salary required, etc., in confidence, 6/46C, Office of this Paper.

LIVERPOOL.—Wanted, unqualified Assistant; reliable; Dispensing experience essential. Apply, stating age, salary, etc., G. H. Cole, Blundellsands.

LLANELLY.—Good, unqualified Assistant wanted; preferably just out of apprenticeship. Apply, stating usual particulars, J. Wade, Chemist.

LONDON qualified lady (Minor) for Retail and Dispensing. Apply, with copies of testimonials, and state age, when disengaged, and salary required (outdoors), 252/1, Office of this Paper.

LONDON HOSPITAL, WHITECHAPEL, E. 1.—Dispenser wanted for six months, possibly permanently; must be a Pharmacist; hours 9 till 5, with occasional late duty; commencing salary, £200. Application by letter only, stating particulars of age, experience, military service, to the Pharmaceutist.

LONDON, N.—Unqualified Assistant, competent, wanted for quick Counter and Dispensing business; usual hours; no Sunday duty. Apply, stating age, height, experience, and salary required (outdoors), to Dow Bros., 44 Seven Sisters Road, Holloway, N. 7.

LONDON, N.—Unqualified Assistant (Scotsman preferred); Counter and Dispensing; good experience can be obtained. Apply, giving usual particulars and salary required (outdoors), to 253/39, Office of this Paper.

LONDON, S.E.—Wanted, Dispenser for N.H.I. work, five or six evenings weekly from 5.30 to 9 p.m. Davies, 374 Old Kent Road, S.E.

LONDON, W.—Capable Assistant required; knowledge of French preferred, but not essential. Full particulars to Central Pharmacy, 11 Shaftesbury Avenue, Piccadilly Circus, London, W. 1.

ST. GEORGE'S HOSPITAL, S.W. 1.—Dispensary Porter wanted, with experience in the making of Stock Ointments, Mixtures, etc.; wages £3 per week (48 hours). Applications to be addressed to the Pharmacist.

STREATHAM.—Immediately, lady Assistant, for good-class Dispensing and Counter; short hours. Apply, in writing, giving full particulars and references, with photo if possible, to "P.," H. T. Escritt, 284 Streatham High Road, S.W. 16.

WESTCLIFF-ON-SEA.—Qualified Assistant (single) required in about a fortnight's time; must be reliable and a good Salesman. Apply, with references, salary required, etc., 252/4, Office of this Paper.

ASSISTANT wanted, outdoors, quick and reliable Dispenser and Counterman, for brisk cash business. Reply, stating experience, age, references, and salary required, sending photo (if possible), to "Modern" (254/20), Office of this Paper.

FRENCH-SPEAKING Assistant; must have Continental experience; qualified preferred; good pay. Apply 254/30, Office of this Paper.

JUNIOR or Improver wanted, about December 28th, for country business, light Retail and N.H.I. Dispensing; outdoors. Apply, stating age, height, experience, salary required, with references, to Coles, Chemist, Irthlingborough, Northamptonshire.

JUNIOR for high-class Dispensing business; state age, experience, and salary required. F. Eric Lever, 151 Westbourne Terrace, Hyde Park, W. 2.

JUNIOR Assistant, unqualified; applicant must be energetic and accustomed to General Retail and N.H.I. Dispensing. Apply, stating salary required (outdoors), with references and full particulars, to J. Patterson, 52 Ilford Lane, Ilford, Essex.

JUNIOR Assistant, unqualified, for Light Retail, Stock, Dispensing, and Counter. Apply Rushton's Pharmacy, 10 Parade, Hall Green, Birmingham.

JUNIOR Assistants (2); male or female; used to quick cash trade, with Photography; please send usual particulars. Chas. Thompson & Sons, 159 Stratford Road, Birmingham.

QUALIFIED Assistant; outdoors; conscientious, trustworthy, and energetic; hours 9 to 7.30, Thursday 1, Saturday 8.30; no Sunday duty; please state age, height, experience, salary required, and when disengaged; applications (by letter only) not answered in three days declined. L. J. Reade, 17 Lichfield Street, Wolverhampton.

QUALIFIED young lady wanted for Retail shop, N.E. Coast town; good references; state salary required. Apply 247/25, Office of this Paper.

SENIOR, for good-class Pharmacy, age 25 to 35, good address, for Front Counter; Optical knowledge an advantage; single, or resident near North London (reason, housing problem); staff of three take 5 per cent. on increased turnover in addition to salaries; advertiser will wait for real business helper. Full particulars to "Progress" (254/12), Office of this Paper.

STEADY, accurate Dispenser; single man with general knowledge of business experience and reliability, the best qualifications; good references and handwriting indispensable. State age, height, salary required, enclose photo, to Chave & Jackson, Ltd., Hereford.

TWO qualified Managers required; one for Branch in S.E London, one for Branch at Southend-on-Sea; N.H.I., Photographic, and General Retail; Optical and Dental knowledge an advantage, but not essential; hours 9 to 8; usual half-holiday weekly; duty alternate Sundays, 6 to 8; remuneration by way of salary and commission. Also required, a disabled or elderly qualified man, to assist in management of shop, supervise Dispensing, and act as relief; easy and comfortable berth; salary according to capabilities. Please state full particulars in first reply to W. D. Noble, 2 Well Street, Cable Street, E. 1.

UNQUALIFIED Assistant required for Staffordshire; one with experience of Agriculture and Seeds. Apply, with usual particulars and photo (to be returned), to Lands, Chemists, Coalville.

UNQUALIFIED Junior Assistant; must be competent Dispenser and possess experience good-class Retail Pharmacy; state age, salary required (indoors), and full particulars first letter and enclose recent photo. Body's Pharmacies, Southend-on-Sea.

WANTED, qualified Chemist-Optician to manage business for about three months, January. Please state wages and full particulars to 251/36, Office of this Paper.

WANTED, experienced Assistant (unqualified) for Photographic Counter; must have thorough knowledge of Photography, energetic and reliable. State salary required (outdoors) to Milburn's Ltd., 95-97 Northumberland Street, Newcastle-on-Tyne.

WANTED, a smart man, qualified, as Dispenser and Manager for a firm of Surgeons; one not afraid of work or long hours; good salary and house to live in at the surgery. Apply "J. D. A.," c/o Messrs. C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, E.C. 2.

WANTED, a qualified Assistant for good Dispensing business; salary £4 per week; E.C. London. Apply P.C.B. 36/31, Office of this Paper.

WANTED, lady Assistant for South Wales village business. Apply, with full particulars, age, and salary (indoors), to "W. W." (252/38), Office of this Paper.

10 CHESTER PLACE, Hyde Park Square, London, W. 2.—A capable Assistant required for Dispensing business; state age, salary required, and references first letter; post to be filled at once. Apply Lindley, above address.

WHOLESALE.

EASTERN COUNTIES.—Required (at once), by large Wholesale house, a Resident Representative for this territory, to call on Chemists and conduct propaganda work amongst Doctors; previous experience of this work and an established connection are essential. State salary required and full particulars in first letter to 48/14B, Office of this Paper.

LONDON Representative required by leading Sundries house; gentleman of experience, with good-class Retail connection. Particulars, in confidence, to 36/47S, Office of this Paper.

LONDON.—Representative, with live connection, wanted immediately) for part of London in addition to Kent and South Coast, by well-known and old-established firm manufacturing Pills and Tablets, commission basis; part time not objected to if other lines do not clash; applications, giving full particulars, will be treated in strictest confidence. Replies, "Merton" (16/5K), Office of this Paper.

A YOUNG man for London and South, also one for Midlands and North, to call upon Dentists and Chemists; travelling experience not necessary, but must have good appearance and address; give full particulars, reference, salary required, etc. Apply P.C.B. 37/21, Office of this Paper.

DRUG Merchants and Importers in London require outdoor Representative with established connection among users and buyers of Crude Drugs, for England, Scotland, and Wales; generous salary, expenses, and commission offered to good man who can bring large turnover. Reply, stating age, experience, fully, to "Drugs," care Deacon's, Leadenhall Street, E.C. 3.

EXPERIENCED Travellers for high-class French Perfumery; liberal commission basis; area (1) North Wales and part of Midlands, (2) East Coast and part of Midlands; state how long working, ground covered, etc. Apply P.C.B. 37/19, Office of this Paper.

FACTORY Manager required for new factory of an important Proprietary Food Company; must be first-class man of experience, capable of fitting up and equipping factory, organising factory and despatch staff, knowledge of costing, etc.; some experience in Analytical and Pharmaceutical work an advantage; good opportunity for really capable man; communications regarded as strictly private. State qualifications and experience to Managing Director, Box 656 Bensons, Kingsway Hall, W.C. 2.

INVOICE Clerk required for City house for pricing, invoicing, etc.; must be well up in figures and a worker; good prospects. Apply, giving full particulars, age, and salary required, to "Inv. C." (14/280), Office of this Paper.

JUNIOR required for Dry Counter; preference given to one experienced in putting up Surgeon's orders. W. A. Wharram, Ltd., Wholesale Chemists, 34 Lady Lane, Leeds.

LABORATORY.—Wanted, an experienced hand, well up in the manufacture of writing fluids, typing inks, etc. Write, stating experience, where obtained, and wages required, to "T.," 6 Dalmeny Mansions, Theobalds Road, W.C.

LABORATORY Hand for London Wholesale Druggists. State age and experience to 6/45C, Office of this Paper.

MANUFACTURERS of Toilet Preparations and Packers of Drysaltery Goods required an experienced Works Manager; must be able to control male and female staff; preference given to one who will take up £1,000 in shares. Address, giving full particulars of experience and state age and salary required, to 43/210, Office of this Paper.

ONE or two Representatives required on commission for Proprietary Ointment; Cumberland, Westmorland, Northumberland, Durham, and North Riding Yorks; must have good connection with Chemists. Apply, stating full particulars, 24/38M, Office of this Paper.

REPRESENTATIVE wanted, accustomed to calling upon Manufacturers of Confectionery and Chocolates, Mineral Waters, Sugar Boilers, for sale of Flavouring Essences, Essential Oils, Colours, etc.; must give fullest information in first instance by letter, age, salary, experience, when at liberty, in strictest confidence, 37/13T, Office of this Paper.

REPRESENTATIVES.—Manufacturers of Toilet Specialities, with an established connection, require Representatives on commission basis; joint representation not objected to if non-competing; 12½% commission; exclusive territory; commission paid on all orders, personal or direct, from territory; twelve months' agreement; only reliable and keen Salesmen entertained. Applicants must state fully, and in strict confidence, territory covered and present lines carried. Apply 29/27P, Office of this Paper.

SHIPPING Clerk required by City Wholesale Druggist; previous knowledge of the Drug trade essential, and well versed in customs house work. Apply by letter, giving full particulars, age, and salary required, to "X. Y. Z." (14/28H), Office of this Paper.

TRAVELLER.—Required by firm of London manufacturers, a thoroughly experienced Traveller for Great Britain, with established connections amongst Wholesale Tobacco and Confectionery houses and Manufacturing Chemists. Write, giving full particulars of previous experience, age, and salary required, to "K. D.," c/o J. W. Vickers & Co., Ltd., 5 Nicholas Lane, E.C.

TRAVELLER, with current sound connection among Chemists and Stores in London and Suburbs, required by firm of Wholesale Chemists, to sell Drugs and Chemicals as side-line, on liberal commission basis. Please send full particulars in first instance to 253/19, Office of this Paper.

TRAVELLERS wanted, South Coast, Midlands, West England, and North, on liberal commission, for good-class Toilet House; excellent case of samples supplied, and also list of customers; could be run as a side-line. 253/36, Office of this Paper.

UNQUALIFIED Junior required for Surgeon's trade; experienced in making Suppositories, Bougies, and the small lines not usually made in our general laboratory; also to assist in packing small Powders, etc. W. A. Wharram, Ltd., Wholesale Chemists, 34 Lady Lane, Leeds.

WANTED, first-rate experienced Travellers with connections amongst Chemists, Wholesalers, and Grocers by a firm of Manufacturing Chemists marketing a variety of goods. State age, ground covered, salary, and full particulars, to 43/21W, Office of this Paper.

WAREHOUSEMAN, experienced in handling Wets and Dries, required for London Chemical Merchants and Exporters; state fully age, experience, wages required, etc. Apply 24/40M, Office of this Paper.

YOUNG, qualified Pharmacist wanted for responsible post in provincial Wholesale house; progressive position for suitable man; must have had previous experience in Wholesale or high-class Retail Pharmacy; when applying please state age, salary required, and full details of previous experience, with references. R. A. Cripps & Son, Manufacturing Pharmacists, Hove.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

FRANCE.—Unqualified male Assistant, age about 20, wanted for English Dispensing; good Salesman; regular hours; lodgings provided; permanency; little knowledge of French would be helpful. Apply, enclosing references and stating salary required, to Apffel, Pharmacien, Rue Faidherbe, Le Havre, France.

INDIA.—Required, for the service of the Government of India, Pharmaceutical Chemist for Bombay Medical Store Depôt; Minor qualification; experience in the manufacture of Pharmaceuticals preferred; five years' agreement on monthly pay of Rs. 450, rising by annual increment of Rs. 30 to Rs. 600; passage both ways. Apply, by letter, stating age, qualifications, and experience, to the Director-General of Stores, India Office, Whitehall, London, S.W. 1.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less: 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—PHARMACIST (27), ten years' best experience, including South Coast and London, desires progressive berth; excellent references. Jenkins, 73 Egerton Road, Wavertree, Liverpool.

A KEEN young Pharmacist desires progressive permanency in West of England; ex-service man. "Energetic," 46 Hathaway Road, Croydon.

A QUALIFIED Chemist as Manager or Assistant; disengaged; 20 years' experience; permanency preferred; moderate salary. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

A QUALIFIED Chemist desires post as Manager or Assistant; 15 years' experience; disengaged. 24 Hilton Road, Leeds.

A RELIABLE, experienced Assistant, accustomed to take charge; £3 10s. weekly; good references. "Chemist," 6 Eastbourne Terrace, London, W. 2.

ACTIVE, elderly Pharmacist; single; fill any position; good address and experience. Dallas, Bromley House, 40 Higher Bank Road, Fulwood, Preston.

ADVERTISER (35), married, unqualified, requires berth; permanency; good all-round experience; not afraid of work; good references. C. P., 97 Mercers Road, Holloway, N.W.

AN opportunity to work wanted by a young lady, anywhere in the British Isles; willing to learn anything; Hall qualification; experienced Bookkeeper, etc.; well recommended; small salary; interesting work the chief thing. 65 Mayfair Avenue, Ilford, Essex.

AS Assistant; permanency; £3 3s. weekly; good references; quick Dispenser, Counterman, Prescriber; age 45; disengaged. Apply 253/4, Office of this Paper.

AS Chemist; age 30; single; M.P.S.; 14 years' experience in Retail Pharmacy. Apply "M. L." 98909, Office of this Paper.

AS Chemist (shop or factory); age 27; single; M.P.S.; 7 years' experience as Chemist's Assistant. Apply "M. L." 98444, Office of this Paper.

AS Chemist; qualified; age 21; single; educated Sunderland Technical College and Westminster College; Minor qualification Pharmaceutical Society. Apply "M. L." 89070, Office of this Paper.

AS Chemist's Assistant; unqualified; age 35; married; fluent French; Preliminary Pharmaceutical Society; 10 years' first-class experience. Apply "M. L." 98699, Office of this Paper.

AS Chemist's Assistant; age 22; single; fluent Welsh; served three years' apprenticeship with qualified Chemists. Apply "M. L." 3168, Office of this Paper.

AS Dispenser in London Pharmacy; age 27; single; Captain, M.C. and bar; knowledge French; served four years as apprentice; passed Part I. Pharmaceutical Society's Minor examination. Apply "M. L." 98118, Office of this Paper.

AS Manager with view to possession or partnership; excellent experience; at liberty; London preferred. "L. H.," c/o 84 Praed Street, W. 2.

AS Manager, Assistant, or Locum (30); tall; disengaged; excellent all-round experience. "M.P.S.," 79 Summerland Avenue, Minehead, Somerset.

AS qualified Manager, elderly, energetic, or supervisor; good Counterman, Dispenser, and Prescriber; steady business habits; reliable references; moderate salary; London or country. Apply 251/39, Office of this Paper.

AS qualified Manager or Locum; disengaged; good all-round experience; town or country. J. Fraser, 57 Cranbury Road, Fulham, S.W.

AS Secretary to Hospital, etc.; age 43; married; 14 years' experience in business on own account as Chemist, also nine months' experience as Chemist's Manager. Apply "M. L." 94021, Office of this Paper.

ASSISTANT; 22; single; has served two years' apprenticeship, and has six months' experience as Chemist's Assistant. Apply "M. L." 63728, Office of this Paper.

ASSISTANT; outdoors; ordinary Retail and Dispensing (N.H.I.), with Photography; no Sunday duty; one o'clock Thursday. 335 Lea Bridge Road, Leyton.

ASSISTANT; energetic, trustworthy; capable of taking charge; unqualified; 25, married; excellent references; free December 1st. Terms to "A. A.," 21 Curzon Street, Maryport, Cumberland.

ASSISTANT (20) desires post; smart appearance; accustomed to high-class Dispensing and Retail; sound Photo experience; excellent references. "Assistant," 10 Salisbury Place, Edinburgh.

ASSISTANT; 24; unqualified; Dispensing, Counter, and Stock; town with available Technical Schools preferred. "Crux," 42 Chantry Street, Andover, Hants.

ASSISTANT or Dispenser (32); first-class West-End experience in Retail and Dispensing. "Associate," 14 Henderson Road, S.W. 18.

ASSISTANT (lady, 21), four years' experience good-class Dispensing and Retail, excellent references, now disengaged. E. M. Asbrey, Park Wells, Builth Wells, Breconshire.

ASSISTANT, Managing or Senior; unqualified; City or West End preferred; experienced; disengaged. Reply "Statim," 72 Tremadoc Road, Clapham, S.W.

ASSISTANT (lady), age 23; three years' experience Stock, Counter, Window-dressing; S.E. district. Wadman, 9 Glenton Road, Lee.

ASSISTANT (25), 11 years' good-class experience Dispensing, Counter, and Photography. Please send particulars, 253/18, Office of this Paper.

BRADFORD or Leeds District.—Pharmaceutical Chemist, with long experience, is wishing to arrange with business owners to take charge for two or three days regularly every week. 253/270, Office of this Paper.

CHEMIST'S Assistant; 26; single; knowledge of French; three years' apprenticeship, two years' experience as Assistant; passed all subjects in Minor except Pharmacy. Apply "M. L." 254364, Office of this Paper.

CHRISTMAS-TIME.—Unqualified; dates December 20 to January 8 (whole or part); Counter, Dispensing; London only. P.C.B. 38/15, Office of this Paper.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (217/13), Office of this Paper.

DISPENSER; part-time; morning, afternoon. Whitchead, 3 Bevan Street, Islington, N.

DISPENSER (Hall), ex-V.A.D. Nurse, desires post, Doctor, Hospital, Institution, Chemist; assist in Doctor's Surgery or Secretarial work if required. Apply 252/40, Office of this Paper.

DISPENSER (lady), Hall, requires post with Doctor or Chemist; seven years' experience with Chemist and one year with Doctor. 2 Selwyn Road, Upton Manor, E. 13.

DISPENSER (Doctor's) seeks permanent post; 25 years with medical men, etc.; little Retail; would not object to Wholesale or Retail; single. B. B., 59a Regent Street, Loughborough, Leicestershire.

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